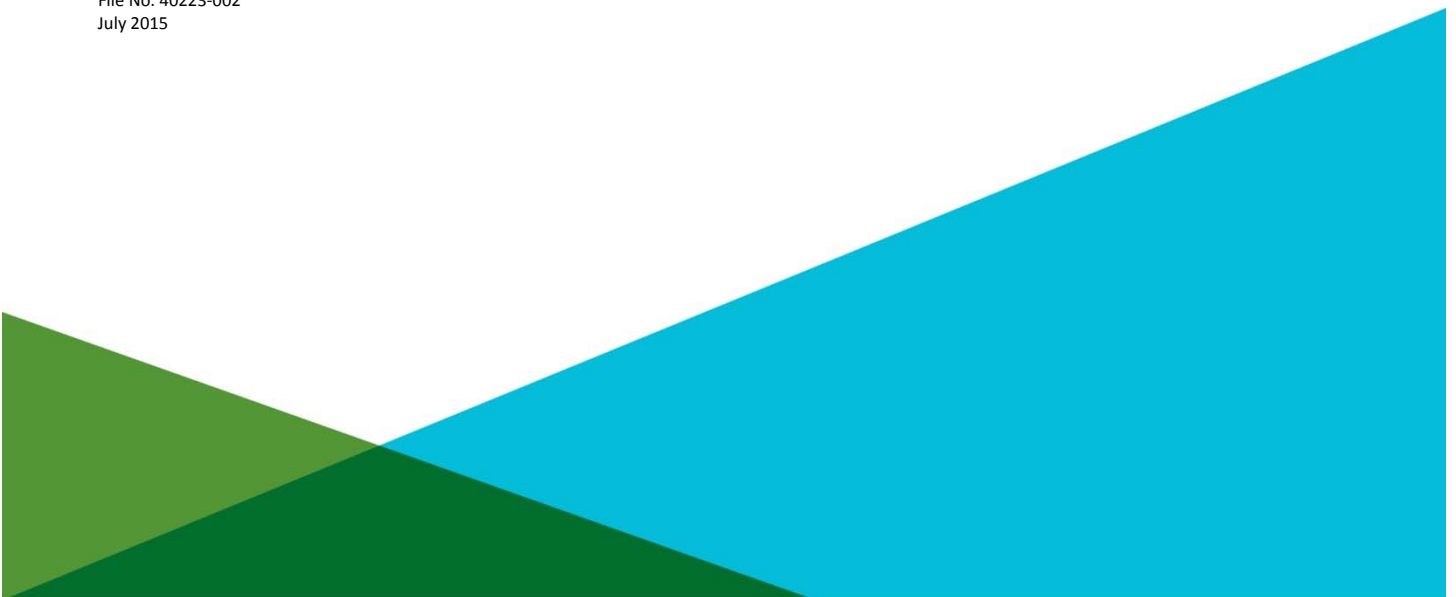


PHASE II SOIL INVESTIGATION REPORT  
VOLUNTARY CLEANUP PROGRAM  
POTOMAC ELECTRIC POWER COMPANY PARCELS AT BUZZARD POINT,  
SQUARE 0611, LOTS 0804, 0805, AND SQUARE 0665, LOT 0024  
WASHINGTON, D.C.

by Haley & Aldrich, Inc.  
McLean, Virginia

for McKissack & McKissack  
Washington, D.C.

File No. 40223-002  
July 2015





Haley & Aldrich, Inc.  
7926 Jones Branch Dr.  
Suite 870  
McLean, VA 22102  
703.336.6200

31 July 2015  
File No. 40223-002

McKissack & McKissack  
901 K Street, NW 6th Floor  
Washington, D.C. 20001

Attention: Mr. Mark Babbitt, P.E.

Subject: Phase II Soil Investigation Report  
Voluntary Cleanup Program  
Potomac Electric Power Company Parcels at Buzzard Point  
Square 0661, Lots 0804, 0805, and Square 0665, Lot 0024  
Washington, D.C.

Ladies and Gentlemen:

Haley & Aldrich, Inc., (Haley & Aldrich) prepared this Phase II Soil Investigation Report (Phase II) for the Potomac Electric Power Company (PEPCO) parcels at Buzzard Point located in Washington, D.C. ([Site]; Figure 1). The objective of this Phase II was to obtain additional data associated with the recognized environmental conditions (RECs) identified in previous investigations to further evaluate the potential impact of chemicals in soil. The targeted RECs were identified in the "Report on ASTM Phase I Environmental Site Assessment and Limited Phase II Subsurface Sampling" prepared by Haley & Aldrich (Haley & Aldrich, 2014). The investigation was conducted in a manner consistent with ASTM E1903-11 Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process. The conclusions and recommendations provided in this Phase II provide information to support the Cleanup Action Plan that will be prepared to supplement the application for Voluntary Cleanup Program prepared for the District of Columbia Department of General Services.

## Background

The Site is bound by R Street, SW to the north, T and S Streets, SW to the south, Half Street, SW to the east and 1st Street, SW to the west; excluding the active substation in the SE corner. The Site is comprised of three lots used as follows:

- Square 0661, Lot 0805 is used as a parking lot;
- Square 0661, Lot 0804 is vacant; and
- Square 0665, Lot 0024 is an abandoned portion of the adjacent electrical substation.

The Site is planned for redevelopment as part of the new D.C. United Soccer Stadium, though no design drawings have yet been prepared for its construction. For the purpose of the Voluntary Cleanup Program application, an excavation of up 10 feet below ground surface (bgs) has been assumed for foundation construction of the proposed stadium. The Phase II considered this depth of excavation to assess soil disposition for foundation construction.

## PREVIOUS INVESTIGATIONS

PEPCO has been monitoring observation wells associated with leaking underground storage tanks since the early 1970s. In 1993, free phase (liquid) hydrocarbons were discovered in an observation well in the combustion turbine area. The Department of Consumer and Regulatory Affairs issued a written directive to PEPCO and TPH Technology, Incorporated (TPH Technology) completed a comprehensive site assessment for leaking underground storage tank (LUST) case #93-051 (TPH Technology, 1993). The assessment included a shallow soil gas survey, installation of 11 groundwater monitoring wells, and soil and groundwater sample collection and analysis. Soil and groundwater analytical results indicated that total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations were elevated.

In 1996, TPH Technology implemented a corrective action plan (TPH Technology, 1995) and installed a soil vapor extraction system that operated from January 1996 to November 1999 and removed approximately 6,925 gallons of petroleum from groundwater. From May 2001 to April 2002, a portable high vacuum pump and treat system was also used to recover petroleum compounds.

In 2005, Advantage Environmental Consultants, LLC, (AEC), conducted a Phase I environmental site assessment (ESA) at an adjacent property and noted that TPH and BTEX concentrations in groundwater were above applicable regulatory standards except in three downgradient wells based on data collected March 8, 2004 (AEC, 2005). Passive remediation with absorbent booms and monitoring was ongoing.

In 2010, the District Department of the Environment (DDOE) issued a "No Further Action" letter to PEPCO in reference to LUST case #93-051 stating that "the residual contamination left in place at this site does not pose a threat to human health and/or the environment" (DDOE, 2010). The DDOE acknowledged that no further remedial action is necessary unless residually contaminated soil is removed, disturbed, or excavated from the Site.

In 2014, Haley & Aldrich conducted a Phase I and limited Phase II ESA. The Phase I identified known RECs (i.e., soil and groundwater petroleum impacts from historical operations) and suspect RECs (i.e., substation-related chemicals, former aboveground storage tanks (ASTs) and associated piping, and adjacent property impacts). Phase II activities collected soil and groundwater samples from the five targeted REC locations shown in Figure 2 (GTW-661-805-1, GTW-661-804-1, GTW-661-804-2, GTW-661-804-3, and GTW-661-24-1). Soil analytical results indicated that gasoline range total petroleum hydrocarbons (TPH-GRO) and diesel range total petroleum hydrocarbons (TPH-DRO) concentrations were above the applicable screening levels (Haley & Aldrich, 2014). Groundwater analytical results indicated that TPH-GRO, TPH-DRO, and benzene concentrations were also above the applicable screening levels (Haley & Aldrich, 2014).

## SOIL SCREENING LEVELS

Soil sample analytical results were compared to the following screening levels:

- DC Tier 0 Soil Standards from the Tier 0 Standards Final Rulemaking published at 40 DCR 7835, 7892 (12 November 1993), as amended by Final Rulemaking published at 46 DCR 7699 (1 October 1999); and
- Environmental Protection Agency (EPA) Regional Screening Level for Industrial Soil from the EPA Regional Screening Level Tables (May 2014).

As used in this Phase II, “soil screening levels” are the lower of the above screening levels. Soil screening levels were selected for the protection of human health and groundwater quality based on the understanding that the Site will be redeveloped into a professional soccer stadium.

## Subsurface Investigation

Soil investigation activities were conducted at the Site between 10 and 16 July 2015 to further evaluate the nature and extent of subsurface soil conditions. These activities were based on previously reported chemical concentrations that exceeded the soil screening levels and identified RECs at the following areas of potential concern (AOPCs) shown in Figure 2:

- Historical boring location GTW-661-805-1;
- Western Site Coverage of Square 0661, Lot 0805;
- Historical boring location GTW-661-804-1;
- Historical boring location GTW-661-804-2 (former AST area);
- Historical boring location GTW-661-804-3 (former AST area);
- LUST case #93-051 approximate area in Square 0061, Lot 0804; and
- Historical boring location GTW-661-24-1.

The sample analyses at each location were selected based on the chemicals that exceeded the soil screening levels and/or the chemicals of potential concern (COPCs) associated with the RECs identified during the Phase I ESA activities. Soil sample locations are shown in Figure 2.

Groundwater sampling at temporary well locations GTW-661-805-1, GTW-661-804-1, GTW-661-804-2, GTW-661-804-3, and GTW-661-24-1 will be conducted and the results evaluated and submitted under separate cover.

## SOIL SAMPLING

Soil samples were collected at depths ranging from 10 to 15 feet bgs using a track-mounted direct-push drill rig. Each boring was continuously logged in accordance with the Unified Soil Classification System; boring logs are provided as Appendix A. Continuous soil cores were collected by driving a hydraulic-percussive stainless steel sampling probe equipped with dedicated acetate tube liners. Soil cores were observed and documented visually for discoloration and screened for volatile organic compounds (VOCs) using a photoionization detector (PID). Soil samples were collected from approximately 1, 5, and 10 feet bgs; select depth intervals were adjusted to target indications of chemicals (e.g., visual or olfactory observations, elevated PID measurements). Samples were collected in laboratory-supplied jars, placed in a cooler with ice, and submitted to Alpha Analytical for analysis under standard chain of custody procedures.

Sampling equipment was decontaminated prior to sampling and between sample locations by washing with non-phosphate detergent (e.g., Alconox) solution, followed by rinsing with potable water, and then distilled water. Sampling personnel used disposable nitrile gloves during sampling and changed gloves between each sample location. Decontamination fluids were captured and placed in 55-gallon drums and disposed of off-Site as discussed below.

One field duplicate soil sample was collected for every 10 soil samples to evaluate sample homogeneity and laboratory accuracy. The field duplicates were collected, numbered, packaged, and sealed in the same manner as the primary samples. One equipment rinse sample was collected at the end of each day of sampling and used to evaluate the effectiveness of the decontamination process. Trip blank samples accompanied each sample shipment submitted for VOC analysis to check for potential cross-contamination during shipment.

## WASTE PROFILING AND DISPOSAL

Once the drilling was completed, investigation-derived waste soil, decontamination wash water, and purge water were contained on-Site in 55-gallon drums and profiled for off-Site disposal by an appropriately-licensed subcontractor.

## RESULTS

The following summarizes the sampling results in the previously described AOPCs.

### Historical Boring Location GTW-661-805-1

The samples collected at approximately 0 to 2 feet bgs from historical boring location GTW-661-801-1 did not have reported chemical concentrations that exceeded the soil screening levels; however at the request of the DDOE, additional samples were obtained in this area to help them further evaluate the Cleanup Action Plan that will be submitted as part of the Voluntary Cleanup Program. Five borings were therefore advanced and 11 samples collected in this area to provide additional information regarding the extent of TPH concentrations in soil.

A review of the analytical results of these samples indicated that two samples had reported TPH-DRO concentrations that exceeded the soil screening levels. Analytical results and chemicals that exceeded the soil screening levels are identified in Table 1. Boring and sample locations that exceeded the soil screening levels are shown in Figure 2. Laboratory analytical reports are provided as Appendix B.

#### **Western Site Coverage of Square 0661, Lot 0805**

Three borings were advanced and nine samples collected in this area to investigate TPH, PAH, and metals concentration in soil based on the COPCs associated with the Site.

A review of the analytical results of these samples indicated that four samples had reported TPH-DRO concentrations that exceeded the soil screening level, one samples had reported a benzo(a)pyrene concentration that exceeded the soil screening level, and nine samples had reported arsenic concentrations that exceeded the soil screen level. Analytical results and chemicals that exceeded the soil screening levels are identified in Table 1. Boring and sample locations that exceeded the soil screening levels are shown in Figure 2. Laboratory analytical reports are provided as Appendix B.

#### **Historical Boring Location GTW-661-804-1**

The samples collected at approximately 20 to 25 feet bgs from historical boring location GTW-661-804-1 did not have reported chemical concentrations that exceeded the soil screening levels; however the sample depth interval was not within the proposed redevelopment depth (i.e., the top 10 feet). Five borings were therefore advanced and 10 samples collected in this area to provide additional information regarding the extent of TPH concentrations in soil within the depth of the proposed stadium development.

A review of the analytical results of these samples indicated that no samples had reported TPH-DRO concentrations that exceeded the soil screening levels. Analytical results are summarized in Table 1. Boring and sample locations are shown in Figure 2. Laboratory analytical reports are provided as Appendix B.

#### **Historical Boring Location GTW-661-804-2**

The samples collected at approximately 10 to 15 feet bgs from historical boring location GTW-661-804-2 had reported TPH-DRO concentrations that exceeded the soil screening levels.

Based on the historical results, nine borings were advanced and 27 samples collected in this area to provide additional information regarding the extent of TPH, metals, and PAH concentrations in soil. Samples DP-057-SO-050-01, DP-092-SO-010-01, DP-092-SO-050-01, DP-092-SO-100-01 were also analyzed for VOCs based on the TPH-GRO results of 110 mg/kg, 240 mg/kg, 150 mg/kg, and 320 mg/kg, respectively.

A review of the analytical results of these samples indicated that five samples had reported TPH-DRO concentrations that exceeded the soil screening levels, four samples had reported TPH-GRO concentrations that exceeded the soil screening levels, three samples had reported ethylbenzene and xylene concentrations that exceeded the soil screening levels, and no samples had reported PAH concentrations that exceeded the soil screening levels. Analytical results and chemicals that exceeded the soil screening levels are identified in Tables 1 and 2. Boring and sample locations that exceeded the soil screening levels are shown in Figure 2. Laboratory analytical reports are provided as Appendix B.

#### **Historical Boring Location GTW-661-804-3**

The samples collected at approximately 20 to 25 feet bgs from historical boring location GTW-661-804-3 had reported TPH-GRO and TPH-DRO concentrations that exceeded the soil screening levels; however, the sample depth interval was not within the proposed redevelopment depth (i.e., the top 10 feet). Nine borings were therefore advanced and 27 samples collected in this area to provide additional information regarding the extent of TPH, metals, and PAH concentrations in soil within the depth of the proposed stadium development. Samples DP-061-SO-050-01 and DP-066-SO-050-01 were also analyzed for VOCs based on the TPH-GRO results of 60 mg/kg and 66 mg/kg, respectively.

A review of the analytical results of these samples indicated that six samples had reported TPH-DRO concentrations that exceeded the soil screening levels and one sample had reported PAH concentrations that exceeded the soil screening levels. Analytical results and chemicals that exceeded the soil screening levels are identified in Tables 1 and 2. Boring and sample locations that exceeded the soil screening levels are shown in Figure 2. Laboratory analytical reports are provided as Appendix B.

#### **LUST case #93-051 approximate area in Square 0061, Lot 0804**

Five borings were advanced and ten samples collected in this area to investigate PAH and metals concentrations in soil based on the COPCs associated with the Site.

A review of the analytical data results for these samples indicated that no chemicals exceeded the soil screening levels. Analytical results are summarized in Table 1. Boring and sample locations are shown in Figure 2. Laboratory analytical reports are provided in Appendix B.

#### **Historical Boring Location GTW-661-24-1**

The samples collected at approximately 20 to 23 feet bgs from historical boring location GTW-661-24-1 did not have reported chemical concentrations that exceeded the soil screening levels; however the sample depth interval was not within the proposed redevelopment depth (i.e., the top 10 feet). Eleven borings were therefore advanced and 21 samples collected in this area to provide additional information regarding the extent of polychlorinated biphenyl (PCB) concentrations in soil within the depth of the proposed stadium development.

A review of the analytical results of these samples indicated that one sample had a reported PCB concentration that exceeded the soil screening levels. Analytical results and the chemical that exceeded the soil screening levels are identified in Table 1. Boring and sample locations that exceeded the soil screening levels are shown in Figure 2. Laboratory analytical reports are provided as Appendix B.

## Summary and Recommendations

In summary, soil samples were collected to evaluate and delineate the presence of chemicals at the five identified RECs associated with the Site. The following is recommended:

- Prepare a Site-specific background metals evaluation;
- Prepare a soil management plan to guide the foundation excavation environmental monitoring process; and
- Implement the soil management plan and provide environmental oversight during the preparatory foundation construction activities and ensure that the soil is properly segregated and disposed of off-Site.

Based on the available analytical results, soil remediation may be required for the protection of human health for the on-Site construction worker and future stadium occupant and to reduce the threat to groundwater quality. The potential order of magnitude for excavating soil at areas that exceed the soil screening levels identified at the seven on-Site AOPCs range from \$380,000 to \$4,570,000. These costs and their associated assumptions are summarized in Table 3 (since chemical concentrations did not exceed soil screening levels, costs for the AOPCs associated with LUST case #93-051 and historical boring location GTW-661-804-1 were not included in Table 3). The soil screening levels used to evaluate impacts at the Site do not account for cumulative health risks. These costs also exclude groundwater mitigation and/or vapor intrusion mitigation that may be required to reduce the threat to human health when constructing the stadium.

The potential order of magnitude costs for soil remediation are based on the available data (i.e., sample locations with chemicals in soil that exceed the soil screening levels), and an understanding that there is no time in the redevelopment schedule for additional delineation sampling, a background metals evaluation, or a human health risk assessment, which may affect the soil remediation feasibility and cost.

## Limitations

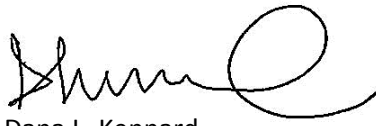
All recommendations are based solely on existing Site conditions at the time of performance of services. Haley & Aldrich is unable to report on, or accurately predict events that may impact the Site following preparation of this document, whether naturally occurring or caused by external forces. The recommendations provided by Haley & Aldrich are based solely on the scope of work conducted and the sources of information referenced in this document. Services hereunder were performed in accordance with our agreement and understanding with, and solely for the use of McKissack & McKissack. Any additional information that becomes available concerning this Site should be provided to Haley &



Aldrich so that any further recommendations may be reviewed and modified as necessary. Haley & Aldrich is not responsible for the subsequent separation, detachment, or partial use of this document. No warranty or guarantee, whether expressed or implied, is made with respect to the recommendations expressed in this report. Any reliance on this report by a third party shall be at such party's sole risk.

We appreciate the opportunity to provide consulting services on this project. Please do not hesitate to call if you have any questions or comments.

Sincerely yours,  
HALEY & ALDRICH, INC.



Dana L. Kennard  
Assistant Project Manager



David A. Schoenwolf, P.E.  
Principal Consultant | Senior Vice President

Attachments:

- Table 1 – Summary of Soil Sample Analytical Results – Metals, PCBs, PAHs, and TPH
- Table 2 – Summary of Groundwater Sample Analytical Results – VOCs
- Table 3 – Order of Magnitude Soil Remediation Costs
- Figure 1 – Site Locus
- Figure 2 – Sample Locations and Exceedances
- Appendix A – Boring Logs
- Appendix B – Laboratory Analytical Reports

## References

1. Advantage Environmental Consultants, LLC, 2005a. Phase I Environmental Site Assessment, Buzzard Point, 2nd Street and V Street, SW, Washington, DC 20024. 10 June.
2. District Department of the Environment, 2010. No Further Action Letter addressed to Ms. Fariba Mahvi, Pepco Holdings, Inc. 1 April.
3. Haley & Aldrich, Inc., 2014. Report on ASTM Phase I Environmental Site Assessment and Limited Phase II Subsurface Sampling, Potomac Electric Power Company Parcels at Buzzard Point, Square 0661, Lot 0805, Square 0661, Lot 0804, and Square 0665 Lot 0024, Potomac Avenue and 1<sup>st</sup> Street, SW Washington, D.C. 09 September.
4. TPH Technology, Incorporated, 1993. Comprehensive Site Assessment, Potomac Electric Power Company, Buzzard Point Station, 1st and V Streets, S.W., Washington, D.C. 11 August.
5. TPH Technology, Incorporated, 1995. Corrective Action Plan, Remedial Specifications and Implementation Details, Buzzard Point Generating Station, Half & S Streets, SW, Washington, DC. DC Lust Case# 93-051. 10 March.

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-048	DP-048	DP-049	DP-049	DP-050	DP-050	DP-051	DP-051
Sample Date			07/10/2015	07/10/2015	07/10/2015	07/10/2015	07/10/2015	07/10/2015	07/10/2015	07/10/2015
Sample Name		EPA Regional	DP-048-SO-050-01	DP-048-SO-100-01	DP-049-SO-050-01	DP-049-SO-100-01	DP-050-SO-050-01	DP-050-SO-100-01	DP-051-SO-050-01	DP-051-SO-100-01
Sample Type	DC Tier 0 Soil	Screening Level for	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Depth (ft bgs)	Standards <sup>1</sup>	Industrial Soil <sup>2</sup>	5	10	5	10	5	10	5	10
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	-	-	-	-	-	-	-	-
Antimony, Total	-	470	-	-	-	-	-	-	-	-
Arsenic, Total	-	3	-	-	-	-	-	-	-	-
Barium, Total	-	220000	-	-	-	-	-	-	-	-
Beryllium, Total	-	2300	-	-	-	-	-	-	-	-
Cadmium, Total	-	980	-	-	-	-	-	-	-	-
Calcium, Total	-	-	-	-	-	-	-	-	-	-
Chromium, Total	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	-	350	-	-	-	-	-	-	-	-
Copper, Total	-	47000	-	-	-	-	-	-	-	-
Iron, Total	-	820000	-	-	-	-	-	-	-	-
Lead, Total	-	800	-	-	-	-	-	-	-	-
Magnesium, Total	-	-	-	-	-	-	-	-	-	-
Manganese, Total	-	26000	-	-	-	-	-	-	-	-
Mercury, Total	-	40	-	-	-	-	-	-	-	-
Nickel, Total	-	22000	-	-	-	-	-	-	-	-
Potassium, Total	-	-	-	-	-	-	-	-	-	-
Selenium, Total	-	5800	-	-	-	-	-	-	-	-
Silver, Total	-	5800	-	-	-	-	-	-	-	-
Sodium, Total	-	-	-	-	-	-	-	-	-	-
Thallium, Total	-	12	-	-	-	-	-	-	-	-
Vanadium, Total	-	5800	-	-	-	-	-	-	-	-
Zinc, Total	-	350000	-	-	-	-	-	-	-	-
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	-	1	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	-	1	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	-	1	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	-	1	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	-	1	-	-	-	-	-	-	-	-
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	-	-	-	-	< 0.18	-	-	-
2-Methylnaphthalene	-	3000	-	-	-	-	< 0.22	-	-	-
Acenaphthene	-	45000	-	-	-	-	< 0.15	-	-	-
Acenaphthylene	-	-	-	-	-	-	< 0.15	-	-	-

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-048 07/10/2015	DP-048 07/10/2015	DP-049 07/10/2015	DP-049 07/10/2015	DP-050 07/10/2015	DP-050 07/10/2015	DP-051 07/10/2015	DP-051 07/10/2015
Sample Date										
Sample Name			DP-048-SO-050-01	DP-048-SO-100-01	DP-049-SO-050-01	DP-049-SO-100-01	DP-050-SO-050-01	DP-050-SO-100-01	DP-051-SO-050-01	DP-051-SO-100-01
Sample Type			Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Depth (ft bgs)			5	10	5	10	5	10	5	10
	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>								
Anthracene	-	230000	-	-	-	-	< 0.11	-	-	-
Benzo(a)anthracene	-	2.9	-	-	-	-	< 0.11	-	-	-
Benzo(a)pyrene	-	0.29	-	-	-	-	< 0.15	-	-	-
Benzo(b)fluoranthene	-	2.9	-	-	-	-	< 0.11	-	-	-
Benzo(g,h,i)perylene	-	-	-	-	-	-	< 0.15	-	-	-
Benzo(k)fluoranthene	-	29	-	-	-	-	< 0.11	-	-	-
Chrysene	-	290	-	-	-	-	< 0.11	-	-	-
Dibenz(a,h)anthracene	-	0.29	-	-	-	-	< 0.11	-	-	-
Fluoranthene	-	30000	-	-	-	-	< 0.11	-	-	-
Fluorene	-	30000	-	-	-	-	< 0.18	-	-	-
Indeno(1,2,3-cd)pyrene	-	2.9	-	-	-	-	< 0.15	-	-	-
Naphthalene	-	17	-	-	-	-	< 0.18	-	-	-
Phenanthrene	-	-	-	-	-	-	<b>0.086 J</b>	-	-	-
Pyrene	-	23000	-	-	-	-	<b>0.037 J</b>	-	-	-
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	<b>0.97 J</b>	< 2.5	< 2.6	< 2.8	< 2.8	< 2.8	< 2.6	< 2.9
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	<b>18.9 J</b>	<b>84.4</b>	<b>5.39 J</b>	< 36.3	<b>404</b>	< 38.1	< 36.6	<b>21.5 J</b>

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)

TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-051 07/10/2015	DP-052 07/10/2015	DP-052 07/10/2015	DP-053 07/10/2015	DP-053 07/10/2015	DP-053 07/10/2015	DP-054 07/10/2015	DP-054 07/10/2015
Sample Date										
Sample Name										
Sample Type										
Sample Depth (ft bgs)										
	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-051-SO-100-02 Duplicate 10	DP-052-SO-050-01 Primary 5	DP-052-SO-100-01 Primary 10	DP-053-SO-010-01 Primary 1	DP-053-SO-050-01 Primary 5	DP-053-SO-100-01 Primary 10	DP-054-SO-010-01 Primary 1	DP-054-SO-050-01 Primary 5
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	-	-	-	7,900	3,100	10,000	7,400	3,400
Antimony, Total	-	470	-	-	-	< 4.2	< 4.1	< 4.3	< 4.4	< 4.3
Arsenic, Total	-	3	-	-	-	22	7.4	8.7	7.4	3.7
Barium, Total	-	220000	-	-	-	45	19	84	70	22
Beryllium, Total	-	2300	-	-	-	0.21 J	0.27 J	0.68	0.33 J	0.17 J
Cadmium, Total	-	980	-	-	-	0.090 J	< 0.81	< 0.86	0.070 J	0.090 J
Calcium, Total	-	-	-	-	-	25,000	310	8,700	75,000	1,900
Chromium, Total	-	-	-	-	-	21	7.5	24	26	12
Cobalt, Total	-	350	-	-	-	8.4	2.5	10	5.8	4.0
Copper, Total	-	47000	-	-	-	43	5.0	28	16	6.2
Iron, Total	-	820000	-	-	-	20,000	16,000	21,000	12,000	6,100
Lead, Total	-	800	-	-	-	6.6	< 4.1	< 4.3	14	10
Magnesium, Total	-	-	-	-	-	8,900	590	6,900	8,900	1,100
Manganese, Total	-	26000	-	-	-	290	100	310	320	92
Mercury, Total	-	40	-	-	-	0.060 J	< 0.070	< 0.070	0.040 J	0.030 J
Nickel, Total	-	22000	-	-	-	18	5.0	26	30	6.8
Potassium, Total	-	-	-	-	-	1,200	220	5,100	920	560
Selenium, Total	-	5800	-	-	-	< 1.7	< 1.6	< 1.7	< 1.8	< 1.7
Silver, Total	-	5800	-	-	-	< 0.85	< 0.81	< 0.86	< 0.89	< 0.86
Sodium, Total	-	-	-	-	-	370	29 J	180	500	77 J
Thallium, Total	-	12	-	-	-	< 1.7	< 1.6	< 1.7	< 1.8	< 1.7
Vanadium, Total	-	5800	-	-	-	66	11	28	34	11
Zinc, Total	-	350000	-	-	-	69	15	61	44	26
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	-	1	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	-	1	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	-	1	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	-	1	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	-	1	-	-	-	-	-	-	-	-
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	-	< 0.18	-	< 0.18	< 0.17	< 0.18	< 0.37	< 0.18
2-Methylnaphthalene	-	3000	-	< 0.21	-	< 0.21	< 0.20	< 0.22	< 0.44	< 0.21
Acenaphthene	-	45000	-	< 0.14	-	< 0.14	< 0.14	< 0.14	0.085 J	< 0.14
Acenaphthylene	-	-	-	< 0.14	-	0.035 J	< 0.14	< 0.14	0.13 J	< 0.14

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-051 07/10/2015	DP-052 07/10/2015	DP-052 07/10/2015	DP-053 07/10/2015	DP-053 07/10/2015	DP-053 07/10/2015	DP-054 07/10/2015	DP-054 07/10/2015
Sample Date										
Sample Name										
Sample Type	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-051-SO-100-02 Duplicate	DP-052-SO-050-01 Primary	DP-052-SO-100-01 Primary	DP-053-SO-010-01 Primary	DP-053-SO-050-01 Primary	DP-053-SO-100-01 Primary	DP-054-SO-010-01 Primary	DP-054-SO-050-01 Primary
Sample Depth (ft bgs)			10	5	10	1	5	10	1	5
Anthracene	-	230000	-	< 0.11	-	<b>0.076 J</b>	< 0.10	< 0.11	<b>0.23</b>	< 0.11
Benzo(a)anthracene	-	2.9	-	<b>0.068 J</b>	-	<b>0.31</b>	< 0.10	< 0.11	<b>0.59</b>	<b>0.043 J</b>
Benzo(a)pyrene	-	0.29	-	<b>0.065 J</b>	-	<b>0.24</b>	< 0.14	< 0.14	<b>0.53</b>	< 0.14
Benzo(b)fluoranthene	-	2.9	-	<b>0.087 J</b>	-	<b>0.39</b>	< 0.10	< 0.11	<b>0.71</b>	<b>0.052 J</b>
Benzo(g,h,i)perylene	-	-	-	<b>0.041 J</b>	-	<b>0.19</b>	< 0.14	< 0.14	<b>0.36</b>	< 0.14
Benzo(k)fluoranthene	-	29	-	< 0.11	-	<b>0.15</b>	< 0.10	< 0.11	<b>0.27</b>	< 0.11
Chrysene	-	290	-	<b>0.075 J</b>	-	<b>0.32</b>	< 0.10	< 0.11	<b>0.62</b>	<b>0.047 J</b>
Dibenz(a,h)anthracene	-	0.29	-	< 0.11	-	<b>0.040 J</b>	< 0.10	< 0.11	<b>0.082 J</b>	< 0.11
Fluoranthene	-	30000	-	<b>0.11</b>	-	<b>0.67</b>	< 0.10	< 0.11	<b>1.2</b>	<b>0.058 J</b>
Fluorene	-	30000	-	< 0.18	-	< 0.18	< 0.17	< 0.18	< 0.37	< 0.18
Indeno(1,2,3-cd)pyrene	-	2.9	-	<b>0.043 J</b>	-	<b>0.20</b>	< 0.14	< 0.14	<b>0.38</b>	< 0.14
Naphthalene	-	17	-	< 0.18	-	< 0.18	< 0.17	< 0.18	< 0.37	< 0.18
Phenanthrene	-	-	-	<b>0.052 J</b>	-	<b>0.23</b>	< 0.10	< 0.11	<b>0.92</b>	< 0.11
Pyrene	-	23000	-	<b>0.11</b>	-	<b>0.53</b>	< 0.10	< 0.11	<b>0.99</b>	<b>0.062 J</b>
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	< 2.4	< 2.6	< 2.9	< 2.6	< 2.4	< 2.3	<b>9.8</b>	<b>2.3 J</b>
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	<b>69.7</b>	<b>163</b>	<b>21.0 J</b>	<b>472</b>	< 33.4	<b>26.6 J</b>	<b>2,850</b>	<b>5.3 J</b>

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)

**TABLE 1**

SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-054 07/10/2015	DP-054 07/10/2015	DP-055 07/10/2015	DP-055 07/10/2015	DP-055 07/10/2015	DP-056 07/10/2015	DP-056 07/10/2015	DP-056 07/10/2015
Sample Date			DP-054-SO-100-01	DP-054-SO-100-02	DP-055-SO-010-01	DP-055-SO-050-01	DP-055-SO-100-01	DP-056-SO-010-01	DP-056-SO-050-01	DP-056-SO-100-01
Sample Name			Primary	Duplicate	Primary	Primary	Primary	Primary	Primary	Primary
Sample Type			10	10	1	5	10	1	5	10
Sample Depth (ft bgs)										
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	7,600	6,800	8,000	8,800	8,100	-	-	-
Antimony, Total	-	470	< 4.6	< 4.5	< 4.5	< 4.3	< 4.6	-	-	-
Arsenic, Total	-	3	9.0	9.8	11	9.8	9.1	-	-	-
Barium, Total	-	220000	73	78	28	63	72	-	-	-
Beryllium, Total	-	2300	0.54	0.55	0.51	0.50	0.60	-	-	-
Cadmium, Total	-	980	0.18 J	0.23 J	< 0.91	< 0.87	< 0.93	-	-	-
Calcium, Total	-	-	9,800	2,300	1,000	2,200	1,600	-	-	-
Chromium, Total	-	-	13	15	15	23	15	-	-	-
Cobalt, Total	-	350	7.2	8.0	2.5	5.4	15	-	-	-
Copper, Total	-	47000	19	22	10	12	17	-	-	-
Iron, Total	-	820000	13,000	14,000	24,000	19,000	13,000	-	-	-
Lead, Total	-	800	140	110	< 4.5	82	53	-	-	-
Magnesium, Total	-	-	980	920	610	850	1,000	-	-	-
Manganese, Total	-	26000	210	210	80	130	310	-	-	-
Mercury, Total	-	40	0.60	0.63	0.020 J	0.060 J	0.87	-	-	-
Nickel, Total	-	22000	11	11	4.8	6.6	10	-	-	-
Potassium, Total	-	-	660	660	380	660	660	-	-	-
Selenium, Total	-	5800	< 1.8	< 1.8	< 1.8	< 1.7	< 1.9	-	-	-
Silver, Total	-	5800	< 0.92	< 0.90	< 0.91	< 0.87	< 0.93	-	-	-
Sodium, Total	-	-	130 J	69 J	74 J	120 J	110 J	-	-	-
Thallium, Total	-	12	< 1.8	< 1.8	< 1.8	< 1.7	< 1.9	-	-	-
Vanadium, Total	-	5800	20	21	29	32	21	-	-	-
Zinc, Total	-	350000	120	140	22	44	61	-	-	-
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	-	1	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	-	1	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	-	1	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	-	1	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	-	1	-	-	-	-	-	-	-	-
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	< 0.19	< 0.19	< 0.19	< 0.18	< 0.20	< 0.20	< 0.19	< 0.19
2-Methylnaphthalene	-	3000	< 0.23	0.064 J	< 0.23	< 0.22	< 0.24	< 0.24	< 0.23	< 0.23
Acenaphthene	-	45000	< 0.15	< 0.15	< 0.16	< 0.15	< 0.16	< 0.16	< 0.15	< 0.15
Acenaphthylene	-	-	< 0.15	< 0.15	< 0.16	< 0.15	< 0.16	< 0.16	< 0.15	< 0.15

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-054 07/10/2015	DP-054 07/10/2015	DP-055 07/10/2015	DP-055 07/10/2015	DP-055 07/10/2015	DP-056 07/10/2015	DP-056 07/10/2015	DP-056 07/10/2015
Sample Date										
Sample Name			DP-054-SO-100-01	DP-054-SO-100-02	DP-055-SO-010-01	DP-055-SO-050-01	DP-055-SO-100-01	DP-056-SO-010-01	DP-056-SO-050-01	DP-056-SO-100-01
Sample Type			Primary	Duplicate	Primary	Primary	Primary	Primary	Primary	Primary
Sample Depth (ft bgs)			10	10	1	5	10	1	5	10
Anthracene	-	230000	<b>0.048 J</b>	<b>0.065 J</b>	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11	<b>0.047 J</b>
Benzo(a)anthracene	-	2.9	<b>0.24</b>	<b>0.24</b>	< 0.12	< 0.11	<b>0.16</b>	< 0.12	< 0.11	<b>0.33</b>
Benzo(a)pyrene	-	0.29	<b>0.23</b>	<b>0.23</b>	< 0.16	< 0.15	<b>0.16</b>	< 0.16	< 0.15	<b>0.18</b>
Benzo(b)fluoranthene	-	2.9	<b>0.30</b>	<b>0.30</b>	< 0.12	<b>0.039 J</b>	<b>0.21</b>	< 0.12	< 0.11	<b>0.28</b>
Benzo(g,h,i)perylene	-	-	<b>0.13 J</b>	<b>0.14 J</b>	< 0.16	< 0.15	<b>0.086 J</b>	< 0.16	< 0.15	<b>0.074 J</b>
Benzo(k)fluoranthene	-	29	<b>0.12</b>	<b>0.11</b>	< 0.12	< 0.11	<b>0.088 J</b>	< 0.12	< 0.11	<b>0.11</b>
Chrysene	-	290	<b>0.26</b>	<b>0.24</b>	< 0.12	< 0.11	<b>0.18</b>	< 0.12	< 0.11	<b>0.32</b>
Dibenz(a,h)anthracene	-	0.29	<b>0.037 J</b>	<b>0.037 J</b>	< 0.12	< 0.11	< 0.12	< 0.12	< 0.11	< 0.11
Fluoranthene	-	30000	<b>0.39</b>	<b>0.39</b>	< 0.12	<b>0.054 J</b>	<b>0.25</b>	< 0.12	< 0.11	<b>0.78</b>
Fluorene	-	30000	< 0.19	< 0.19	< 0.19	< 0.18	< 0.20	< 0.20	< 0.19	< 0.19
Indeno(1,2,3-cd)pyrene	-	2.9	<b>0.15</b>	<b>0.15</b>	< 0.16	< 0.15	<b>0.11 J</b>	< 0.16	< 0.15	<b>0.088 J</b>
Naphthalene	-	17	< 0.19	<b>0.080 J</b>	< 0.19	< 0.18	< 0.20	< 0.20	< 0.19	< 0.19
Phenanthrene	-	-	<b>0.20</b>	<b>0.26</b>	< 0.12	< 0.11	<b>0.10 J</b>	< 0.12	< 0.11	<b>0.11</b>
Pyrene	-	23000	<b>0.35</b>	<b>0.34</b>	< 0.12	<b>0.050 J</b>	<b>0.21</b>	< 0.12	< 0.11	<b>0.61</b>
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	< 2.9	< 2.7	< 2.9	< 2.7	< 2.8	< 2.8	< 2.8	< 2.5
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	<b>112</b>	<b>104</b>	<b>9.18 J</b>	<b>17.1 J</b>	<b>579</b>	<b>5.37 J</b>	<b>6.93 J</b>	<b>631</b>

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)



**TABLE 1**

SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-057 07/10/2015	DP-057 07/10/2015	DP-057 07/10/2015	DP-057 07/10/2015	DP-058 07/10/2015	DP-058 07/10/2015	DP-058 07/10/2015	DP-059 07/10/2015
Sample Date										
Sample Name										
Sample Type										
Sample Depth (ft bgs)										
	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-057-SO-010-01 Primary 1	DP-057-SO-050-01 Primary 5	DP-057-SO-100-01 Primary 10	DP-057-SO-100-02 Duplicate 10	DP-058-SO-010-01 Primary 1	DP-058-SO-050-01 Primary 5	DP-058-SO-100-01 Primary 10	DP-059-SO-010-01 Primary 1
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	-	-	-	-	-	-	-	-
Antimony, Total	-	470	-	-	-	-	-	-	-	-
Arsenic, Total	-	3	-	-	-	-	-	-	-	-
Barium, Total	-	220000	-	-	-	-	-	-	-	-
Beryllium, Total	-	2300	-	-	-	-	-	-	-	-
Cadmium, Total	-	980	-	-	-	-	-	-	-	-
Calcium, Total	-	-	-	-	-	-	-	-	-	-
Chromium, Total	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	-	350	-	-	-	-	-	-	-	-
Copper, Total	-	47000	-	-	-	-	-	-	-	-
Iron, Total	-	820000	-	-	-	-	-	-	-	-
Lead, Total	-	800	-	-	-	-	-	-	-	-
Magnesium, Total	-	-	-	-	-	-	-	-	-	-
Manganese, Total	-	26000	-	-	-	-	-	-	-	-
Mercury, Total	-	40	-	-	-	-	-	-	-	-
Nickel, Total	-	22000	-	-	-	-	-	-	-	-
Potassium, Total	-	-	-	-	-	-	-	-	-	-
Selenium, Total	-	5800	-	-	-	-	-	-	-	-
Silver, Total	-	5800	-	-	-	-	-	-	-	-
Sodium, Total	-	-	-	-	-	-	-	-	-	-
Thallium, Total	-	12	-	-	-	-	-	-	-	-
Vanadium, Total	-	5800	-	-	-	-	-	-	-	-
Zinc, Total	-	350000	-	-	-	-	-	-	-	-
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	-	1	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	-	1	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	-	1	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	-	1	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	-	1	-	-	-	-	-	-	-	-
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	< 0.20	< 0.19	< 0.20	< 0.18	< 0.19	< 0.18	< 0.19	< 0.18
2-Methylnaphthalene	-	3000	< 0.24	<b>0.11 J</b>	< 0.24	< 0.22	< 0.23	< 0.22	< 0.23	< 0.22
Acenaphthene	-	45000	< 0.16	< 0.15	< 0.16	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Acenaphthylene	-	-	< 0.16	< 0.15	< 0.16	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-057 07/10/2015	DP-057 07/10/2015	DP-057 07/10/2015	DP-057 07/10/2015	DP-058 07/10/2015	DP-058 07/10/2015	DP-058 07/10/2015	DP-059 07/10/2015
Sample Date										
Sample Name										
Sample Type	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-057-SO-010-01 Primary	DP-057-SO-050-01 Primary	DP-057-SO-100-01 Primary	DP-057-SO-100-02 Duplicate	DP-058-SO-010-01 Primary	DP-058-SO-050-01 Primary	DP-058-SO-100-01 Primary	DP-059-SO-010-01 Primary
Sample Depth (ft bgs)			1	5	10	10	1	5	10	1
Anthracene	-	230000	< 0.12	<b>0.059 J</b>	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Benzo(a)anthracene	-	2.9	<b>0.046 J</b>	<b>0.10 J</b>	< 0.12	< 0.11	<b>0.15</b>	< 0.11	< 0.11	<b>0.044 J</b>
Benzo(a)pyrene	-	0.29	< 0.16	< 0.15	< 0.16	< 0.15	<b>0.14 J</b>	< 0.15	< 0.15	<b>0.046 J</b>
Benzo(b)fluoranthene	-	2.9	< 0.12	<b>0.075 J</b>	< 0.12	< 0.11	<b>0.20</b>	< 0.11	< 0.11	<b>0.066 J</b>
Benzo(g,h,i)perylene	-	-	< 0.16	< 0.15	< 0.16	< 0.15	<b>0.093 J</b>	< 0.15	< 0.15	< 0.15
Benzo(k)fluoranthene	-	29	< 0.12	< 0.11	< 0.12	< 0.11	<b>0.070 J</b>	< 0.11	< 0.11	< 0.11
Chrysene	-	290	< 0.12	<b>0.099 J</b>	< 0.12	< 0.11	<b>0.16</b>	< 0.11	< 0.11	<b>0.045 J</b>
Dibenz(a,h)anthracene	-	0.29	< 0.12	< 0.11	< 0.12	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Fluoranthene	-	30000	<b>0.16</b>	<b>0.39</b>	< 0.12	< 0.11	<b>0.23</b>	< 0.11	< 0.11	<b>0.051 J</b>
Fluorene	-	30000	< 0.20	< 0.19	< 0.20	< 0.18	< 0.19	< 0.18	< 0.19	< 0.18
Indeno(1,2,3-cd)pyrene	-	2.9	< 0.16	< 0.15	< 0.16	< 0.15	<b>0.099 J</b>	< 0.15	< 0.15	< 0.15
Naphthalene	-	17	< 0.20	< 0.19	< 0.20	< 0.18	< 0.19	< 0.18	< 0.19	< 0.18
Phenanthrene	-	-	< 0.12	<b>0.21</b>	< 0.12	< 0.11	<b>0.084 J</b>	< 0.11	< 0.11	< 0.11
Pyrene	-	23000	<b>0.12</b>	<b>0.33</b>	< 0.12	< 0.11	<b>0.21</b>	< 0.11	< 0.11	<b>0.044 J</b>
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	< 2.8	<b>110</b>	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	<b>78.9</b>	<b>5,050</b>	<b>10.7 J</b>	<b>10.3 J</b>	<b>30.2 J</b>	<b>6.25 J</b>	<b>4.84 J</b>	<b>18.2 J</b>

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)

TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-059 07/10/2015	DP-059 07/10/2015	DP-059 07/10/2015	DP-060 07/10/2015	DP-060 07/10/2015	DP-060 07/10/2015	DP-061 07/10/2015	DP-061 07/10/2015
Sample Date										
Sample Name										
Sample Type										
Sample Depth (ft bgs)										
	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-059-SO-010-02 Duplicate	DP-059-SO-050-01 Primary	DP-059-SO-100-01 Primary	DP-060-SO-010-01 Primary	DP-060-SO-050-01 Primary	DP-060-SO-100-01 Primary	DP-061-SO-010-01 Primary	DP-061-SO-050-01 Primary
			1	5	10	1	5	10	1	5
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	-	-	-	-	-	-	-	-
Antimony, Total	-	470	-	-	-	-	-	-	-	-
Arsenic, Total	-	3	-	-	-	-	-	-	-	-
Barium, Total	-	220000	-	-	-	-	-	-	-	-
Beryllium, Total	-	2300	-	-	-	-	-	-	-	-
Cadmium, Total	-	980	-	-	-	-	-	-	-	-
Calcium, Total	-	-	-	-	-	-	-	-	-	-
Chromium, Total	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	-	350	-	-	-	-	-	-	-	-
Copper, Total	-	47000	-	-	-	-	-	-	-	-
Iron, Total	-	820000	-	-	-	-	-	-	-	-
Lead, Total	-	800	-	-	-	-	-	-	-	-
Magnesium, Total	-	-	-	-	-	-	-	-	-	-
Manganese, Total	-	26000	-	-	-	-	-	-	-	-
Mercury, Total	-	40	-	-	-	-	-	-	-	-
Nickel, Total	-	22000	-	-	-	-	-	-	-	-
Potassium, Total	-	-	-	-	-	-	-	-	-	-
Selenium, Total	-	5800	-	-	-	-	-	-	-	-
Silver, Total	-	5800	-	-	-	-	-	-	-	-
Sodium, Total	-	-	-	-	-	-	-	-	-	-
Thallium, Total	-	12	-	-	-	-	-	-	-	-
Vanadium, Total	-	5800	-	-	-	-	-	-	-	-
Zinc, Total	-	350000	-	-	-	-	-	-	-	-
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	-	1	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	-	1	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	-	1	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	-	1	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	-	1	-	-	-	-	-	-	-	-
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	< 0.18	< 0.19	< 0.19	< 0.20	< 0.20	< 0.20	< 0.19	< 0.20
2-Methylnaphthalene	-	3000	< 0.22	< 0.23	< 0.23	< 0.24	< 0.23	< 0.24	< 0.23	< 0.24
Acenaphthene	-	45000	< 0.14	< 0.15	< 0.15	< 0.16	< 0.16	< 0.16	< 0.15	<b>0.086 J</b>
Acenaphthylene	-	-	< 0.14	< 0.15	< 0.15	< 0.16	< 0.16	< 0.16	< 0.15	< 0.16

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-059 07/10/2015	DP-059 07/10/2015	DP-059 07/10/2015	DP-060 07/10/2015	DP-060 07/10/2015	DP-060 07/10/2015	DP-061 07/10/2015	DP-061 07/10/2015
Sample Date										
Sample Name										
Sample Type										
Sample Depth (ft bgs)										
	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-059-SO-010-02 Duplicate 1	DP-059-SO-050-01 Primary 5	DP-059-SO-100-01 Primary 10	DP-060-SO-010-01 Primary 1	DP-060-SO-050-01 Primary 5	DP-060-SO-100-01 Primary 10	DP-061-SO-010-01 Primary 1	DP-061-SO-050-01 Primary 5
Anthracene	-	230000	< 0.11	<b>0.080 J</b>	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	<b>0.24</b>
Benzo(a)anthracene	-	2.9	<b>0.052 J</b>	<b>0.29</b>	< 0.12	< 0.12	< 0.12	< 0.12	<b>0.057 J</b>	<b>0.40</b>
Benzo(a)pyrene	-	0.29	<b>0.052 J</b>	<b>0.25</b>	< 0.15	< 0.16	< 0.16	< 0.16	<b>0.060 J</b>	<b>0.28</b>
Benzo(b)fluoranthene	-	2.9	<b>0.066 J</b>	<b>0.30</b>	< 0.12	< 0.12	< 0.12	< 0.12	<b>0.051 J</b>	<b>0.22</b>
Benzo(g,h,i)perylene	-	-	< 0.14	<b>0.12 J</b>	< 0.15	< 0.16	< 0.16	< 0.16	<b>0.039 J</b>	<b>0.12 J</b>
Benzo(k)fluoranthene	-	29	< 0.11	<b>0.16</b>	< 0.12	< 0.12	< 0.12	< 0.12	<b>0.048 J</b>	<b>0.26</b>
Chrysene	-	290	<b>0.050 J</b>	<b>0.29</b>	< 0.12	<b>0.042 J</b>	< 0.12	< 0.12	<b>0.064 J</b>	<b>0.36</b>
Dibenz(a,h)anthracene	-	0.29	< 0.11	<b>0.042 J</b>	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	<b>0.056 J</b>
Fluoranthene	-	30000	<b>0.066 J</b>	<b>0.48</b>	< 0.12	<b>0.048 J</b>	<b>0.042 J</b>	< 0.12	<b>0.10 J</b>	<b>0.70</b>
Fluorene	-	30000	< 0.18	< 0.19	< 0.19	< 0.20	< 0.20	< 0.20	< 0.19	<b>0.10 J</b>
Indeno(1,2,3-cd)pyrene	-	2.9	< 0.14	<b>0.16</b>	< 0.15	< 0.16	< 0.16	< 0.16	< 0.15	<b>0.13 J</b>
Naphthalene	-	17	< 0.18	< 0.19	< 0.19	< 0.20	< 0.20	< 0.20	< 0.19	< 0.20
Phenanthrene	-	-	< 0.11	<b>0.35</b>	< 0.12	< 0.12	< 0.12	< 0.12	<b>0.074 J</b>	<b>0.66</b>
Pyrene	-	23000	<b>0.061 J</b>	<b>0.40</b>	< 0.12	<b>0.056 J</b>	<b>0.040 J</b>	< 0.12	<b>0.092 J</b>	<b>0.58</b>
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	< 2.8	< 2.9	< 2.7	< 2.8	< 2.6	< 2.9	< 2.8	<b>60</b>
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	<b>13.3 J</b>	<b>254</b>	<b>158</b>	<b>18.9 J</b>	<b>49.2</b>	<b>5.10 J</b>	<b>37.2 J</b>	<b>291</b>

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-061 07/10/2015	DP-061 07/10/2015	DP-062 07/10/2015	DP-062 07/10/2015	DP-062 07/10/2015	DP-063 07/10/2015	DP-063 07/10/2015	DP-063 07/10/2015
Sample Date										
Sample Name										
Sample Type										
Sample Depth (ft bgs)										
	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-061-SO-050-02 Duplicate	DP-061-SO-100-01 Primary	DP-062-SO-010-01 Primary	DP-062-SO-050-01 Primary	DP-062-SO-100-01 Primary	DP-063-SO-010-01 Primary	DP-063-SO-050-01 Primary	DP-063-SO-100-01 Primary
			5	10	1	5	10	1	5	10
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	-	-	-	-	-	-	-	-
Antimony, Total	-	470	-	-	-	-	-	-	-	-
Arsenic, Total	-	3	-	-	-	-	-	-	-	-
Barium, Total	-	220000	-	-	-	-	-	-	-	-
Beryllium, Total	-	2300	-	-	-	-	-	-	-	-
Cadmium, Total	-	980	-	-	-	-	-	-	-	-
Calcium, Total	-	-	-	-	-	-	-	-	-	-
Chromium, Total	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	-	350	-	-	-	-	-	-	-	-
Copper, Total	-	47000	-	-	-	-	-	-	-	-
Iron, Total	-	820000	-	-	-	-	-	-	-	-
Lead, Total	-	800	-	-	-	-	-	-	-	-
Magnesium, Total	-	-	-	-	-	-	-	-	-	-
Manganese, Total	-	26000	-	-	-	-	-	-	-	-
Mercury, Total	-	40	-	-	-	-	-	-	-	-
Nickel, Total	-	22000	-	-	-	-	-	-	-	-
Potassium, Total	-	-	-	-	-	-	-	-	-	-
Selenium, Total	-	5800	-	-	-	-	-	-	-	-
Silver, Total	-	5800	-	-	-	-	-	-	-	-
Sodium, Total	-	-	-	-	-	-	-	-	-	-
Thallium, Total	-	12	-	-	-	-	-	-	-	-
Vanadium, Total	-	5800	-	-	-	-	-	-	-	-
Zinc, Total	-	350000	-	-	-	-	-	-	-	-
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	-	1	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	-	1	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	-	1	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	-	1	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	-	1	-	-	-	-	-	-	-	-
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19
2-Methylnaphthalene	-	3000	< 0.24	< 0.24	< 0.23	< 0.23	< 0.24	< 0.23	< 0.23	< 0.23
Acenaphthene	-	45000	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.15	< 0.15	< 0.16
Acenaphthylene	-	-	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.15	< 0.15	< 0.16

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-061 07/10/2015	DP-061 07/10/2015	DP-062 07/10/2015	DP-062 07/10/2015	DP-062 07/10/2015	DP-063 07/10/2015	DP-063 07/10/2015	DP-063 07/10/2015
Sample Date										
Sample Name										
Sample Type	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-061-SO-050-02 Duplicate	DP-061-SO-100-01 Primary	DP-062-SO-010-01 Primary	DP-062-SO-050-01 Primary	DP-062-SO-100-01 Primary	DP-063-SO-010-01 Primary	DP-063-SO-050-01 Primary	DP-063-SO-100-01 Primary
Sample Depth (ft bgs)			5	10	1	5	10	1	5	10
Anthracene	-	230000	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12
Benzo(a)anthracene	-	2.9	<b>0.055 J</b>	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12
Benzo(a)pyrene	-	0.29	<b>0.054 J</b>	< 0.16	< 0.16	< 0.16	< 0.16	< 0.15	< 0.15	< 0.16
Benzo(b)fluoranthene	-	2.9	<b>0.047 J</b>	< 0.12	< 0.12	< 0.12	< 0.12	<b>0.040 J</b>	< 0.12	< 0.12
Benzo(g,h,i)perylene	-	-	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.15	< 0.15	< 0.16
Benzo(k)fluoranthene	-	29	<b>0.050 J</b>	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12
Chrysene	-	290	<b>0.053 J</b>	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12
Dibenz(a,h)anthracene	-	0.29	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12
Fluoranthene	-	30000	<b>0.080 J</b>	< 0.12	< 0.12	< 0.12	< 0.12	<b>0.051 J</b>	< 0.12	< 0.12
Fluorene	-	30000	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19
Indeno(1,2,3-cd)pyrene	-	2.9	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.15	< 0.15	< 0.16
Naphthalene	-	17	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19
Phenanthrene	-	-	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12	< 0.12
Pyrene	-	23000	<b>0.076 J</b>	< 0.12	< 0.12	< 0.12	< 0.12	<b>0.051 J</b>	<b>0.042 J</b>	< 0.12
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	<b>57</b>	<b>3.6</b>	< 2.9	< 2.4	< 2.8	< 2.8	< 2.9	< 2.5
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	<b>230</b>	<b>60.0</b>	< 37.0	<b>10.9 J</b>	<b>8.69 J</b>	<b>30.6 J</b>	<b>14.1 J</b>	<b>5.94 J</b>

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-064 07/10/2015	DP-064 07/10/2015	DP-064 07/10/2015	DP-064 07/10/2015	DP-065 07/13/2015	DP-065 07/13/2015	DP-065 07/13/2015	DP-066 07/13/2015
Sample Date										
Sample Name										
Sample Type	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-064-SO-010-01 Primary	DP-064-SO-050-01 Primary	DP-064-SO-100-01 Primary	DP-064-SO-100-02 Duplicate	DP-065-SO-010-01 Primary	DP-065-SO-050-01 Primary	DP-065-SO-100-01 Primary	DP-066-SO-010-01 Primary
Sample Depth (ft bgs)			1	5	10	10	1	5	10	1
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	-	-	-	-	9,800	5,300	9,800	-
Antimony, Total	-	470	-	-	-	-	< 4.3	< 4.6	< 4.7	-
Arsenic, Total	-	3	-	-	-	-	2.5	0.35 J	0.96	-
Barium, Total	-	220000	-	-	-	-	71	87	88	-
Beryllium, Total	-	2300	-	-	-	-	0.55	0.59	0.82	-
Cadmium, Total	-	980	-	-	-	-	0.15 J	0.10 J	< 0.94	-
Calcium, Total	-	-	-	-	-	-	2,000	300	1,400	-
Chromium, Total	-	-	-	-	-	-	16	9.3	15	-
Cobalt, Total	-	350	-	-	-	-	8.5	6.8	13	-
Copper, Total	-	47000	-	-	-	-	14	8.1	7.4	-
Iron, Total	-	820000	-	-	-	-	21,000	20,000	15,000	-
Lead, Total	-	800	-	-	-	-	46	8.1	22	-
Magnesium, Total	-	-	-	-	-	-	1,000	510	1,100	-
Manganese, Total	-	26000	-	-	-	-	400	500	1,800	-
Mercury, Total	-	40	-	-	-	-	0.19	< 0.080	0.82	-
Nickel, Total	-	22000	-	-	-	-	11	10	9.8	-
Potassium, Total	-	-	-	-	-	-	510	320	470	-
Selenium, Total	-	5800	-	-	-	-	< 1.7	< 1.8	< 1.9	-
Silver, Total	-	5800	-	-	-	-	< 0.86	< 0.93	0.33 J	-
Sodium, Total	-	-	-	-	-	-	30 J	< 180	< 190	-
Thallium, Total	-	12	-	-	-	-	< 1.7	< 1.8	< 1.9	-
Vanadium, Total	-	5800	-	-	-	-	22	13	22	-
Zinc, Total	-	350000	-	-	-	-	44	27	29	-
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	-	1	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	-	1	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	-	1	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	-	1	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	-	1	-	-	-	-	-	-	-	-
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	< 0.19	< 0.18	< 0.19	< 0.20	< 0.18	-	-	< 0.19
2-Methylnaphthalene	-	3000	< 0.22	< 0.21	< 0.23	< 0.24	< 0.22	-	-	< 0.23
Acenaphthene	-	45000	< 0.15	< 0.14	< 0.16	< 0.16	< 0.15	-	-	< 0.15
Acenaphthylene	-	-	< 0.15	< 0.14	< 0.16	< 0.16	< 0.15	-	-	0.053 J

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location Sample Date Sample Name Sample Type Sample Depth (ft bgs)	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-064 07/10/2015 DP-064-SO-010-01 Primary 1	DP-064 07/10/2015 DP-064-SO-050-01 Primary 5	DP-064 07/10/2015 DP-064-SO-100-01 Primary 10	DP-064 07/10/2015 DP-064-SO-100-02 Duplicate 10	DP-065 07/13/2015 DP-065-SO-010-01 Primary 1	DP-065 07/13/2015 DP-065-SO-050-01 Primary 5	DP-065 07/13/2015 DP-065-SO-100-01 Primary 10	DP-066 07/13/2015 DP-066-SO-010-01 Primary 1
Anthracene	-	230000	< 0.11	< 0.11	< 0.12	< 0.12	< 0.11	-	-	<b>0.060 J</b>
Benzo(a)anthracene	-	2.9	<b>0.090 J</b>	< 0.11	< 0.12	< 0.12	<b>0.068 J</b>	-	-	<b>0.33</b>
Benzo(a)pyrene	-	0.29	<b>0.086 J</b>	< 0.14	< 0.16	< 0.16	<b>0.060 J</b>	-	-	<b>0.32</b>
Benzo(b)fluoranthene	-	2.9	<b>0.11</b>	< 0.11	< 0.12	< 0.12	<b>0.078 J</b>	-	-	<b>0.27</b>
Benzo(g,h,i)perylene	-	-	<b>0.059 J</b>	< 0.14	< 0.16	< 0.16	< 0.15	-	-	<b>0.17</b>
Benzo(k)fluoranthene	-	29	<b>0.040 J</b>	< 0.11	< 0.12	< 0.12	< 0.11	-	-	<b>0.28</b>
Chrysene	-	290	<b>0.090 J</b>	< 0.11	< 0.12	< 0.12	<b>0.069 J</b>	-	-	<b>0.33</b>
Dibenz(a,h)anthracene	-	0.29	< 0.11	< 0.11	< 0.12	< 0.12	< 0.11	-	-	<b>0.070 J</b>
Fluoranthene	-	30000	<b>0.15</b>	< 0.11	< 0.12	< 0.12	<b>0.12</b>	-	-	<b>0.51</b>
Fluorene	-	30000	< 0.19	< 0.18	< 0.19	< 0.20	< 0.18	-	-	< 0.19
Indeno(1,2,3-cd)pyrene	-	2.9	<b>0.059 J</b>	< 0.14	< 0.16	< 0.16	< 0.15	-	-	<b>0.17</b>
Naphthalene	-	17	< 0.19	< 0.18	< 0.19	< 0.20	< 0.18	-	-	< 0.19
Phenanthrene	-	-	<b>0.071 J</b>	< 0.11	< 0.12	< 0.12	<b>0.053 J</b>	-	-	<b>0.20</b>
Pyrene	-	23000	<b>0.14</b>	< 0.11	< 0.12	< 0.12	<b>0.10 J</b>	-	-	<b>0.44</b>
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	< 2.7	< 2.7	< 2.6	< 3.0	< 2.8	< 2.7	< 3.1	<b>1.6 J</b>
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	<b>21.7 J</b>	<b>6.06 J</b>	<b>26.0 J</b>	<b>21.6 J</b>	<b>264</b>	<b>4.39 J</b>	<b>16.2 J</b>	<b>56.8</b>

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)



**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-066	DP-066	DP-067	DP-067	DP-067	DP-068	DP-068	DP-068
Sample Date			07/13/2015	07/13/2015	07/13/2015	07/13/2015	07/13/2015	07/13/2015	07/13/2015	07/13/2015
Sample Name		EPA Regional	DP-066-SO-050-01	DP-066-SO-100-01	DP-067-SO-010-01	DP-067-SO-050-01	DP-067-SO-100-01	DP-068-SO-010-01	DP-068-SO-050-01	DP-068-SO-100-01
Sample Type	DC Tier 0 Soil	Screening Level for	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Depth (ft bgs)	Standards <sup>1</sup>	Industrial Soil <sup>2</sup>	5	10	1	5	10	1	5	10
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	-	-	-	-	-	-	-	-
Antimony, Total	-	470	-	-	-	-	-	-	-	-
Arsenic, Total	-	3	-	-	-	-	-	-	-	-
Barium, Total	-	220000	-	-	-	-	-	-	-	-
Beryllium, Total	-	2300	-	-	-	-	-	-	-	-
Cadmium, Total	-	980	-	-	-	-	-	-	-	-
Calcium, Total	-	-	-	-	-	-	-	-	-	-
Chromium, Total	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	-	350	-	-	-	-	-	-	-	-
Copper, Total	-	47000	-	-	-	-	-	-	-	-
Iron, Total	-	820000	-	-	-	-	-	-	-	-
Lead, Total	-	800	-	-	-	-	-	-	-	-
Magnesium, Total	-	-	-	-	-	-	-	-	-	-
Manganese, Total	-	26000	-	-	-	-	-	-	-	-
Mercury, Total	-	40	-	-	-	-	-	-	-	-
Nickel, Total	-	22000	-	-	-	-	-	-	-	-
Potassium, Total	-	-	-	-	-	-	-	-	-	-
Selenium, Total	-	5800	-	-	-	-	-	-	-	-
Silver, Total	-	5800	-	-	-	-	-	-	-	-
Sodium, Total	-	-	-	-	-	-	-	-	-	-
Thallium, Total	-	12	-	-	-	-	-	-	-	-
Vanadium, Total	-	5800	-	-	-	-	-	-	-	-
Zinc, Total	-	350000	-	-	-	-	-	-	-	-
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	-	1	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	-	1	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	-	1	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	-	1	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	-	1	-	-	-	-	-	-	-	-
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	< 0.19	< 0.20	< 0.19	< 0.20	< 0.20	< 0.19	< 0.20	< 0.21
2-Methylnaphthalene	-	3000	<b>0.15 J</b>	< 0.24	< 0.23	< 0.24	< 0.24	< 0.23	< 0.24	< 0.25
Acenaphthene	-	45000	< 0.16	< 0.16	< 0.15	< 0.16	< 0.16	< 0.15	< 0.16	< 0.16
Acenaphthylene	-	-	< 0.16	< 0.16	< 0.15	< 0.16	< 0.16	< 0.15	< 0.16	< 0.16

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-066 07/13/2015	DP-066 07/13/2015	DP-067 07/13/2015	DP-067 07/13/2015	DP-067 07/13/2015	DP-068 07/13/2015	DP-068 07/13/2015	DP-068 07/13/2015
Sample Date										
Sample Name										
Sample Type										
Sample Depth (ft bgs)										
			DP-066-SO-050-01 Primary 5	DP-066-SO-100-01 Primary 10	DP-067-SO-010-01 Primary 1	DP-067-SO-050-01 Primary 5	DP-067-SO-100-01 Primary 10	DP-068-SO-010-01 Primary 1	DP-068-SO-050-01 Primary 5	DP-068-SO-100-01 Primary 10
Anthracene	-	230000	<b>0.046 J</b>	< 0.12	< 0.12	<b>0.065 J</b>	< 0.12	< 0.12	< 0.12	< 0.12
Benzo(a)anthracene	-	2.9	<b>0.15</b>	< 0.12	<b>0.059 J</b>	<b>0.28</b>	< 0.12	<b>0.17</b>	< 0.12	< 0.12
Benzo(a)pyrene	-	0.29	<b>0.14 J</b>	< 0.16	<b>0.062 J</b>	<b>0.28</b>	< 0.16	<b>0.16</b>	< 0.16	< 0.16
Benzo(b)fluoranthene	-	2.9	<b>0.12</b>	< 0.12	<b>0.054 J</b>	<b>0.23</b>	< 0.12	<b>0.14</b>	< 0.12	< 0.12
Benzo(g,h,i)perylene	-	-	<b>0.083 J</b>	< 0.16	<b>0.044 J</b>	<b>0.16</b>	< 0.16	<b>0.083 J</b>	< 0.16	< 0.16
Benzo(k)fluoranthene	-	29	<b>0.14</b>	< 0.12	<b>0.053 J</b>	<b>0.23</b>	< 0.12	<b>0.15</b>	< 0.12	< 0.12
Chrysene	-	290	<b>0.16</b>	< 0.12	<b>0.061 J</b>	<b>0.28</b>	< 0.12	<b>0.17</b>	< 0.12	< 0.12
Dibenz(a,h)anthracene	-	0.29	< 0.12	< 0.12	< 0.12	<b>0.072 J</b>	< 0.12	< 0.12	< 0.12	< 0.12
Fluoranthene	-	30000	<b>0.28</b>	< 0.12	<b>0.088 J</b>	<b>0.46</b>	< 0.12	<b>0.26</b>	< 0.12	< 0.12
Fluorene	-	30000	< 0.19	< 0.20	< 0.19	< 0.20	< 0.20	< 0.19	< 0.20	< 0.21
Indeno(1,2,3-cd)pyrene	-	2.9	<b>0.082 J</b>	< 0.16	< 0.15	<b>0.15 J</b>	< 0.16	<b>0.080 J</b>	< 0.16	< 0.16
Naphthalene	-	17	<b>0.15 J</b>	< 0.20	< 0.19	< 0.20	< 0.20	< 0.19	< 0.20	< 0.21
Phenanthrene	-	-	<b>0.20</b>	< 0.12	< 0.12	<b>0.22</b>	< 0.12	<b>0.11 J</b>	< 0.12	< 0.12
Pyrene	-	23000	<b>0.26</b>	< 0.12	<b>0.079 J</b>	<b>0.39</b>	< 0.12	<b>0.22</b>	< 0.12	< 0.12
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	<b>66</b>	< 3.1	< 2.9	< 2.9	< 2.7	< 2.7	< 3.0	< 3.0
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	<b>1,020</b>	<b>7.54 J</b>	<b>15.6 J</b>	<b>106</b>	<b>7.32 J</b>	<b>62.4</b>	<b>9.23 J</b>	< 41.9

**NOTES**

Bold where detected; highlighted where exceeds  
 Results reported in mg/kg  
 mg/kg = milligrams per kilogram  
 ft bgs = feet below ground surface  
 -- = screening level not available/sample not analyzed  
 < = not detected at the indicated reporting limit  
 J = estimated value  
 P = relative percent difference between results for the two columns exceeds the method-specified criteria

PCBs = polychlorinated biphenyls  
 PAHs = polycyclic aromatic hydrocarbons  
 TPH = total petroleum hydrocarbons

- DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-069 07/13/2015	DP-069 07/13/2015	DP-070 07/13/2015	DP-070 07/13/2015	DP-071 07/13/2015	DP-071 07/13/2015	DP-072 07/13/2015	DP-072 07/13/2015
Sample Date										
Sample Name										
Sample Type										
Sample Depth (ft bgs)										
	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-069-SO-050-01 Primary 5	DP-069-SO-100-01 Primary 10	DP-070-SO-050-01 Primary 5	DP-070-SO-100-01 Primary 10	DP-071-SO-050-01 Primary 5	DP-071-SO-100-01 Primary 10	DP-072-SO-010-01 Primary 1	DP-072-SO-010-02 Duplicate 1
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	-	-	-	-	-	-	-	-
Antimony, Total	-	470	-	-	-	-	-	-	-	-
Arsenic, Total	-	3	-	-	-	-	-	-	-	-
Barium, Total	-	220000	-	-	-	-	-	-	-	-
Beryllium, Total	-	2300	-	-	-	-	-	-	-	-
Cadmium, Total	-	980	-	-	-	-	-	-	-	-
Calcium, Total	-	-	-	-	-	-	-	-	-	-
Chromium, Total	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	-	350	-	-	-	-	-	-	-	-
Copper, Total	-	47000	-	-	-	-	-	-	-	-
Iron, Total	-	820000	-	-	-	-	-	-	-	-
Lead, Total	-	800	-	-	-	-	-	-	-	-
Magnesium, Total	-	-	-	-	-	-	-	-	-	-
Manganese, Total	-	26000	-	-	-	-	-	-	-	-
Mercury, Total	-	40	-	-	-	-	-	-	-	-
Nickel, Total	-	22000	-	-	-	-	-	-	-	-
Potassium, Total	-	-	-	-	-	-	-	-	-	-
Selenium, Total	-	5800	-	-	-	-	-	-	-	-
Silver, Total	-	5800	-	-	-	-	-	-	-	-
Sodium, Total	-	-	-	-	-	-	-	-	-	-
Thallium, Total	-	12	-	-	-	-	-	-	-	-
Vanadium, Total	-	5800	-	-	-	-	-	-	-	-
Zinc, Total	-	350000	-	-	-	-	-	-	-	-
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	-	1	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	-	1	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	-	1	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	-	1	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	-	1	-	-	-	-	-	-	-	-
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	-	-	-	-	-	-	< 0.20	< 0.19
2-Methylnaphthalene	-	3000	-	-	-	-	-	-	< 0.24	< 0.23
Acenaphthene	-	45000	-	-	-	-	-	-	< 0.16	< 0.16
Acenaphthylene	-	-	-	-	-	-	-	-	< 0.16	< 0.16

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-069 07/13/2015	DP-069 07/13/2015	DP-070 07/13/2015	DP-070 07/13/2015	DP-071 07/13/2015	DP-071 07/13/2015	DP-072 07/13/2015	DP-072 07/13/2015
Sample Date										
Sample Name			DP-069-SO-050-01	DP-069-SO-100-01	DP-070-SO-050-01	DP-070-SO-100-01	DP-071-SO-050-01	DP-071-SO-100-01	DP-072-SO-010-01	DP-072-SO-010-02
Sample Type			Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate
Sample Depth (ft bgs)			5	10	5	10	5	10	1	1
Anthracene	-	230000	-	-	-	-	-	-	< 0.12	< 0.12
Benzo(a)anthracene	-	2.9	-	-	-	-	-	-	< 0.12	< 0.12
Benzo(a)pyrene	-	0.29	-	-	-	-	-	-	< 0.16	< 0.16
Benzo(b)fluoranthene	-	2.9	-	-	-	-	-	-	< 0.12	< 0.12
Benzo(g,h,i)perylene	-	-	-	-	-	-	-	-	< 0.16	< 0.16
Benzo(k)fluoranthene	-	29	-	-	-	-	-	-	< 0.12	< 0.12
Chrysene	-	290	-	-	-	-	-	-	< 0.12	< 0.12
Dibenz(a,h)anthracene	-	0.29	-	-	-	-	-	-	< 0.12	< 0.12
Fluoranthene	-	30000	-	-	-	-	-	-	< 0.12	< 0.12
Fluorene	-	30000	-	-	-	-	-	-	< 0.20	< 0.19
Indeno(1,2,3-cd)pyrene	-	2.9	-	-	-	-	-	-	< 0.16	< 0.16
Naphthalene	-	17	-	-	-	-	-	-	< 0.20	< 0.19
Phenanthrene	-	-	-	-	-	-	-	-	< 0.12	< 0.12
Pyrene	-	23000	-	-	-	-	-	-	< 0.12	< 0.12
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	< 3.0	< 2.9	< 2.9	< 2.9	< 2.8	< 2.9	< 2.9	< 2.8
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	<b>5.32 J</b>	<b>4.53 J</b>	< 38.9	<b>5.94 J</b>	< 38.1	< 38.2	<b>5.56 J</b>	<b>8.37 J</b>

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-072 07/13/2015	DP-072 07/13/2015	DP-073 07/13/2015	DP-073 07/13/2015	DP-073 07/13/2015	DP-074 07/13/2015	DP-074 07/13/2015	DP-074 07/13/2015
Sample Date	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-072-SO-050-01	DP-072-SO-100-01	DP-073-SO-010-01	DP-073-SO-050-01	DP-073-SO-100-01	DP-074-SO-010-01	DP-074-SO-010-02	DP-074-SO-050-01
Sample Name			Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Primary
Sample Type			5	10	1	5	10	1	1	5
Sample Depth (ft bgs)										
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	-	-	-	-	-	-	-	-
Antimony, Total	-	470	-	-	-	-	-	-	-	-
Arsenic, Total	-	3	-	-	-	-	-	-	-	-
Barium, Total	-	220000	-	-	-	-	-	-	-	-
Beryllium, Total	-	2300	-	-	-	-	-	-	-	-
Cadmium, Total	-	980	-	-	-	-	-	-	-	-
Calcium, Total	-	-	-	-	-	-	-	-	-	-
Chromium, Total	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	-	350	-	-	-	-	-	-	-	-
Copper, Total	-	47000	-	-	-	-	-	-	-	-
Iron, Total	-	820000	-	-	-	-	-	-	-	-
Lead, Total	-	800	-	-	-	-	-	-	-	-
Magnesium, Total	-	-	-	-	-	-	-	-	-	-
Manganese, Total	-	26000	-	-	-	-	-	-	-	-
Mercury, Total	-	40	-	-	-	-	-	-	-	-
Nickel, Total	-	22000	-	-	-	-	-	-	-	-
Potassium, Total	-	-	-	-	-	-	-	-	-	-
Selenium, Total	-	5800	-	-	-	-	-	-	-	-
Silver, Total	-	5800	-	-	-	-	-	-	-	-
Sodium, Total	-	-	-	-	-	-	-	-	-	-
Thallium, Total	-	12	-	-	-	-	-	-	-	-
Vanadium, Total	-	5800	-	-	-	-	-	-	-	-
Zinc, Total	-	350000	-	-	-	-	-	-	-	-
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	-	1	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	-	1	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	-	1	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	-	1	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	-	1	-	-	-	-	-	-	-	-
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	< 0.19	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
2-Methylnaphthalene	-	3000	< 0.23	< 0.24	< 0.24	< 0.24	< 0.23	< 0.24	< 0.23	< 0.24
Acenaphthene	-	45000	< 0.15	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Acenaphthylene	-	-	< 0.15	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-072 07/13/2015	DP-072 07/13/2015	DP-073 07/13/2015	DP-073 07/13/2015	DP-073 07/13/2015	DP-074 07/13/2015	DP-074 07/13/2015	DP-074 07/13/2015
Sample Date										
Sample Name	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-072-SO-050-01	DP-072-SO-100-01	DP-073-SO-010-01	DP-073-SO-050-01	DP-073-SO-100-01	DP-074-SO-010-01	DP-074-SO-010-02	DP-074-SO-050-01
Sample Type			Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Primary
Sample Depth (ft bgs)			5	10	1	5	10	1	1	5
Anthracene	-	230000	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Benzo(a)anthracene	-	2.9	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Benzo(a)pyrene	-	0.29	< 0.15	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Benzo(b)fluoranthene	-	2.9	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Benzo(g,h,i)perylene	-	-	< 0.15	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Benzo(k)fluoranthene	-	29	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Chrysene	-	290	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Dibenz(a,h)anthracene	-	0.29	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Fluoranthene	-	30000	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Fluorene	-	30000	< 0.19	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Indeno(1,2,3-cd)pyrene	-	2.9	< 0.15	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Naphthalene	-	17	< 0.19	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Phenanthrene	-	-	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Pyrene	-	23000	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	< 2.9	< 2.8	< 2.9	< 2.8	< 3.0	< 3.0	< 2.9	< 2.8
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	<b>5.46 J</b>	<b>5.03 J</b>	< 38.6	< 39.3	< 39.3	< 39.3	< 39.0	< 39.0

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-074	DP-075	DP-075	DP-075	DP-076	DP-076	DP-077	DP-077
Sample Date			07/13/2015	07/13/2015	07/13/2015	07/13/2015	07/13/2015	07/13/2015	07/13/2015	07/13/2015
Sample Name		EPA Regional	DP-074-SO-100-01	DP-075-SO-010-01	DP-075-SO-050-01	DP-075-SO-100-01	DP-076-SO-050-01	DP-076-SO-100-01	DP-077-SO-050-01	DP-077-SO-100-01
Sample Type	DC Tier 0 Soil	Screening Level for	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Depth (ft bgs)	Standards <sup>1</sup>	Industrial Soil <sup>2</sup>	10	1	5	10	5	10	5	10
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	-	-	-	-	-	-	-	-
Antimony, Total	-	470	-	-	-	-	-	-	-	-
Arsenic, Total	-	3	-	-	-	-	-	-	-	-
Barium, Total	-	220000	-	-	-	-	-	-	-	-
Beryllium, Total	-	2300	-	-	-	-	-	-	-	-
Cadmium, Total	-	980	-	-	-	-	-	-	-	-
Calcium, Total	-	-	-	-	-	-	-	-	-	-
Chromium, Total	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	-	350	-	-	-	-	-	-	-	-
Copper, Total	-	47000	-	-	-	-	-	-	-	-
Iron, Total	-	820000	-	-	-	-	-	-	-	-
Lead, Total	-	800	-	-	-	-	-	-	-	-
Magnesium, Total	-	-	-	-	-	-	-	-	-	-
Manganese, Total	-	26000	-	-	-	-	-	-	-	-
Mercury, Total	-	40	-	-	-	-	-	-	-	-
Nickel, Total	-	22000	-	-	-	-	-	-	-	-
Potassium, Total	-	-	-	-	-	-	-	-	-	-
Selenium, Total	-	5800	-	-	-	-	-	-	-	-
Silver, Total	-	5800	-	-	-	-	-	-	-	-
Sodium, Total	-	-	-	-	-	-	-	-	-	-
Thallium, Total	-	12	-	-	-	-	-	-	-	-
Vanadium, Total	-	5800	-	-	-	-	-	-	-	-
Zinc, Total	-	350000	-	-	-	-	-	-	-	-
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	-	0.66	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	-	1	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	-	1	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	-	1	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	-	1	-	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	-	-	-	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	-	-	-	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	-	1	-	-	-	-	-	-	-	-
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	< 0.19	< 0.19	< 0.20	< 0.20	< 0.19	< 0.18	< 0.19	< 0.18
2-Methylnaphthalene	-	3000	< 0.23	< 0.23	< 0.24	< 0.24	< 0.23	< 0.22	< 0.22	< 0.22
Acenaphthene	-	45000	< 0.16	< 0.15	< 0.16	< 0.16	< 0.16	< 0.15	< 0.15	< 0.15
Acenaphthylene	-	-	< 0.16	< 0.15	< 0.16	< 0.16	< 0.16	< 0.15	< 0.15	< 0.15

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location Sample Date Sample Name Sample Type Sample Depth (ft bgs)	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-074 07/13/2015 DP-074-SO-100-01 Primary 10	DP-075 07/13/2015 DP-075-SO-010-01 Primary 1	DP-075 07/13/2015 DP-075-SO-050-01 Primary 5	DP-075 07/13/2015 DP-075-SO-100-01 Primary 10	DP-076 07/13/2015 DP-076-SO-050-01 Primary 5	DP-076 07/13/2015 DP-076-SO-100-01 Primary 10	DP-077 07/13/2015 DP-077-SO-050-01 Primary 5	DP-077 07/13/2015 DP-077-SO-100-01 Primary 10
Anthracene	-	230000	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11
Benzo(a)anthracene	-	2.9	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11
Benzo(a)pyrene	-	0.29	< 0.16	< 0.15	< 0.16	< 0.16	< 0.16	< 0.15	< 0.15	< 0.15
Benzo(b)fluoranthene	-	2.9	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11
Benzo(g,h,i)perylene	-	-	< 0.16	< 0.15	< 0.16	< 0.16	< 0.16	< 0.15	< 0.15	< 0.15
Benzo(k)fluoranthene	-	29	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11
Chrysene	-	290	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11
Dibenz(a,h)anthracene	-	0.29	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11
Fluoranthene	-	30000	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11
Fluorene	-	30000	< 0.19	< 0.19	< 0.20	< 0.20	< 0.19	< 0.18	< 0.19	< 0.18
Indeno(1,2,3-cd)pyrene	-	2.9	< 0.16	< 0.15	< 0.16	< 0.16	< 0.16	< 0.15	< 0.15	< 0.15
Naphthalene	-	17	< 0.19	< 0.19	< 0.20	< 0.20	< 0.19	< 0.18	< 0.19	< 0.18
Phenanthrene	-	-	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11
Pyrene	-	23000	< 0.12	< 0.11	< 0.12	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	< 2.8	< 2.8	< 2.8	< 2.9	< 2.8	< 2.7	< 2.9	< 2.8
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	< 39.2	< 38.8	< 39.0	< 39.4	< 36.8	< 35.2	< 37.4	< 36.5

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)



**TABLE 1**

SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-078 07/13/2015	DP-078 07/13/2015	DP-079 07/14/2015	DP-079 07/14/2015	DP-080 07/14/2015	DP-080 07/14/2015	DP-080 07/14/2015	DP-081 07/14/2015
Sample Date										
Sample Name										
Sample Type										
Sample Depth (ft bgs)										
	<b>DC Tier 0 Soil Standards<sup>1</sup></b>	<b>EPA Regional Screening Level for Industrial Soil<sup>2</sup></b>	DP-078-SO-050-01 Primary 5	DP-078-SO-100-01 Primary 10	DP-079-SO-010-01 Primary 1	DP-079-SO-050-01 Primary 5	DP-080-SO-010-01 Primary 1	DP-080-SO-010-02 Duplicate 1	DP-080-SO-050-01 Primary 5	DP-081-SO-010-01 Primary 1
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	-	-	-	-	-	-	-	-
Antimony, Total	-	470	-	-	-	-	-	-	-	-
Arsenic, Total	-	3	-	-	-	-	-	-	-	-
Barium, Total	-	220000	-	-	-	-	-	-	-	-
Beryllium, Total	-	2300	-	-	-	-	-	-	-	-
Cadmium, Total	-	980	-	-	-	-	-	-	-	-
Calcium, Total	-	-	-	-	-	-	-	-	-	-
Chromium, Total	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	-	350	-	-	-	-	-	-	-	-
Copper, Total	-	47000	-	-	-	-	-	-	-	-
Iron, Total	-	820000	-	-	-	-	-	-	-	-
Lead, Total	-	800	-	-	-	-	-	-	-	-
Magnesium, Total	-	-	-	-	-	-	-	-	-	-
Manganese, Total	-	26000	-	-	-	-	-	-	-	-
Mercury, Total	-	40	-	-	-	-	-	-	-	-
Nickel, Total	-	22000	-	-	-	-	-	-	-	-
Potassium, Total	-	-	-	-	-	-	-	-	-	-
Selenium, Total	-	5800	-	-	-	-	-	-	-	-
Silver, Total	-	5800	-	-	-	-	-	-	-	-
Sodium, Total	-	-	-	-	-	-	-	-	-	-
Thallium, Total	-	12	-	-	-	-	-	-	-	-
Vanadium, Total	-	5800	-	-	-	-	-	-	-	-
Zinc, Total	-	350000	-	-	-	-	-	-	-	-
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	-	-	< 0.0369	< 0.0365	< 0.0358	< 0.0357	< 0.0367	< 0.039
Aroclor-1221 (PCB-1221)	-	0.66	-	-	< 0.0369	< 0.0365	< 0.0358	< 0.0357	< 0.0367	< 0.039
Aroclor-1232 (PCB-1232)	-	0.66	-	-	< 0.0369	< 0.0365	< 0.0358	< 0.0357	< 0.0367	< 0.039
Aroclor-1242 (PCB-1242)	-	1	-	-	< 0.0369	< 0.0365	< 0.0358	< 0.0357	< 0.0367	< 0.039
Aroclor-1248 (PCB-1248)	-	1	-	-	< 0.0369	< 0.0365	< 0.0358	< 0.0357	< 0.0367	< 0.039
Aroclor-1254 (PCB-1254)	-	1	-	-	< 0.0369	< 0.0365	< 0.0358	< 0.0357	< 0.0367	< 0.039
Aroclor-1260 (PCB-1260)	-	1	-	-	< 0.0369	< 0.0365	< 0.0358	< 0.0357	< 0.0367	< 0.039
Aroclor-1262 (PCB-1262)	-	-	-	-	< 0.0369	< 0.0365	< 0.0358	< 0.0357	< 0.0367	< 0.039
Aroclor-1268 (PCB-1268)	-	-	-	-	< 0.0369	< 0.0365	< 0.0358	< 0.0357	< 0.0367	< 0.039
Polychlorinated biphenyls (PCBs)	-	1	-	-	< 0.0369	< 0.0365	< 0.0358	< 0.0357	< 0.0367	< 0.039
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	< 0.20	< 0.19	-	-	-	-	-	-
2-Methylnaphthalene	-	3000	< 0.23	< 0.23	-	-	-	-	-	-
Acenaphthene	-	45000	< 0.16	< 0.15	-	-	-	-	-	-
Acenaphthylene	-	-	< 0.16	< 0.15	-	-	-	-	-	-

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-078 07/13/2015	DP-078 07/13/2015	DP-079 07/14/2015	DP-079 07/14/2015	DP-080 07/14/2015	DP-080 07/14/2015	DP-080 07/14/2015	DP-081 07/14/2015
Sample Date										
Sample Name										
Sample Type	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-078-SO-050-01 Primary	DP-078-SO-100-01 Primary	DP-079-SO-010-01 Primary	DP-079-SO-050-01 Primary	DP-080-SO-010-01 Primary	DP-080-SO-010-02 Duplicate	DP-080-SO-050-01 Primary	DP-081-SO-010-01 Primary
Sample Depth (ft bgs)			5	10	1	5	1	1	5	1
Anthracene	-	230000	< 0.12	< 0.11	-	-	-	-	-	-
Benzo(a)anthracene	-	2.9	< 0.12	< 0.11	-	-	-	-	-	-
Benzo(a)pyrene	-	0.29	< 0.16	< 0.15	-	-	-	-	-	-
Benzo(b)fluoranthene	-	2.9	< 0.12	< 0.11	-	-	-	-	-	-
Benzo(g,h,i)perylene	-	-	< 0.16	< 0.15	-	-	-	-	-	-
Benzo(k)fluoranthene	-	29	< 0.12	< 0.11	-	-	-	-	-	-
Chrysene	-	290	< 0.12	< 0.11	-	-	-	-	-	-
Dibenz(a,h)anthracene	-	0.29	< 0.12	< 0.11	-	-	-	-	-	-
Fluoranthene	-	30000	< 0.12	< 0.11	-	-	-	-	-	-
Fluorene	-	30000	< 0.20	< 0.19	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	-	2.9	< 0.16	< 0.15	-	-	-	-	-	-
Naphthalene	-	17	< 0.20	< 0.19	-	-	-	-	-	-
Phenanthrene	-	-	< 0.12	< 0.11	-	-	-	-	-	-
Pyrene	-	23000	< 0.12	< 0.11	-	-	-	-	-	-
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	< 2.9	< 2.8	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	<b>4.54 J</b>	< 37.9	-	-	-	-	-	-

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)

TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-081 07/14/2015	DP-082 07/14/2015	DP-082 07/14/2015	DP-083 07/14/2015	DP-083 07/14/2015	DP-084 07/14/2015	DP-085 07/15/2015	DP-085 07/15/2015
Sample Date										
Sample Name		EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-081-SO-050-01	DP-082-SO-010-01	DP-082-SO-050-01	DP-083-SO-010-01	DP-083-SO-050-01	DP-084-SO-010-01	DP-085-SO-010-01	DP-085-SO-050-01
Sample Type	DC Tier 0 Soil Standards <sup>1</sup>		Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Depth (ft bgs)			5	1	5	1	5	1	1	5
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	-	-	-	-	-	-	-	-
Antimony, Total	-	470	-	-	-	-	-	-	-	-
Arsenic, Total	-	3	-	-	-	-	-	-	-	-
Barium, Total	-	220000	-	-	-	-	-	-	-	-
Beryllium, Total	-	2300	-	-	-	-	-	-	-	-
Cadmium, Total	-	980	-	-	-	-	-	-	-	-
Calcium, Total	-	-	-	-	-	-	-	-	-	-
Chromium, Total	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	-	350	-	-	-	-	-	-	-	-
Copper, Total	-	47000	-	-	-	-	-	-	-	-
Iron, Total	-	820000	-	-	-	-	-	-	-	-
Lead, Total	-	800	-	-	-	-	-	-	-	-
Magnesium, Total	-	-	-	-	-	-	-	-	-	-
Manganese, Total	-	26000	-	-	-	-	-	-	-	-
Mercury, Total	-	40	-	-	-	-	-	-	-	-
Nickel, Total	-	22000	-	-	-	-	-	-	-	-
Potassium, Total	-	-	-	-	-	-	-	-	-	-
Selenium, Total	-	5800	-	-	-	-	-	-	-	-
Silver, Total	-	5800	-	-	-	-	-	-	-	-
Sodium, Total	-	-	-	-	-	-	-	-	-	-
Thallium, Total	-	12	-	-	-	-	-	-	-	-
Vanadium, Total	-	5800	-	-	-	-	-	-	-	-
Zinc, Total	-	350000	-	-	-	-	-	-	-	-
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	< 0.0355	< 0.0370	< 0.0363	< 0.0359	< 0.0373	< 0.0359	< 0.0352	< 0.0347
Aroclor-1221 (PCB-1221)	-	0.66	< 0.0355	< 0.0370	< 0.0363	< 0.0359	< 0.0373	< 0.0359	< 0.0352	< 0.0347
Aroclor-1232 (PCB-1232)	-	0.66	< 0.0355	< 0.0370	< 0.0363	< 0.0359	< 0.0373	< 0.0359	< 0.0352	< 0.0347
Aroclor-1242 (PCB-1242)	-	1	< 0.0355	< 0.0370	< 0.0363	< 0.0359	< 0.0373	< 0.0359	< 0.0352	< 0.0347
Aroclor-1248 (PCB-1248)	-	1	< 0.0355	< 0.0370	< 0.0363	< 0.0359	< 0.0373	< 0.0359	< 0.0352	< 0.0347
Aroclor-1254 (PCB-1254)	-	1	< 0.0355	<b>0.00955 J</b>	< 0.0363	< 0.0359	<b>0.0118 J</b>	<b>0.00758 J</b>	< 0.0352	< 0.0347
Aroclor-1260 (PCB-1260)	-	1	< 0.0355	<b>0.00950 J</b>	< 0.0363	< 0.0359	<b>0.0255 J</b>	<b>0.0137 J</b>	< 0.0352	< 0.0347
Aroclor-1262 (PCB-1262)	-	-	< 0.0355	< 0.0370	< 0.0363	< 0.0359	< 0.0373	< 0.0359	< 0.0352	< 0.0347
Aroclor-1268 (PCB-1268)	-	-	< 0.0355	< 0.0370	< 0.0363	< 0.0359	< 0.0373	< 0.0359	< 0.0352	< 0.0347
Polychlorinated biphenyls (PCBs)	-	1	< 0.0355	<b>0.0190 J</b>	< 0.0363	< 0.0359	<b>0.0373 J</b>	<b>0.0213 J</b>	< 0.0352	< 0.0347
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	-	-	-	-	-	-	-	-
2-Methylnaphthalene	-	3000	-	-	-	-	-	-	-	-
Acenaphthene	-	45000	-	-	-	-	-	-	-	-
Acenaphthylene	-	-	-	-	-	-	-	-	-	-

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-081 07/14/2015	DP-082 07/14/2015	DP-082 07/14/2015	DP-083 07/14/2015	DP-083 07/14/2015	DP-084 07/14/2015	DP-085 07/15/2015	DP-085 07/15/2015
Sample Date										
Sample Name			DP-081-SO-050-01	DP-082-SO-010-01	DP-082-SO-050-01	DP-083-SO-010-01	DP-083-SO-050-01	DP-084-SO-010-01	DP-085-SO-010-01	DP-085-SO-050-01
Sample Type			Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Depth (ft bgs)			5	1	5	1	5	1	1	5
Anthracene	-	230000	-	-	-	-	-	-	-	-
Benzo(a)anthracene	-	2.9	-	-	-	-	-	-	-	-
Benzo(a)pyrene	-	0.29	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	-	2.9	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	-	29	-	-	-	-	-	-	-	-
Chrysene	-	290	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	-	0.29	-	-	-	-	-	-	-	-
Fluoranthene	-	30000	-	-	-	-	-	-	-	-
Fluorene	-	30000	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	-	2.9	-	-	-	-	-	-	-	-
Naphthalene	-	17	-	-	-	-	-	-	-	-
Phenanthrene	-	-	-	-	-	-	-	-	-	-
Pyrene	-	23000	-	-	-	-	-	-	-	-
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	-	-	-	-	-	-	-	-

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)

TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-086 07/15/2015	DP-086 07/15/2015	DP-086 07/15/2015	DP-087 07/15/2015	DP-087 07/15/2015	DP-088 07/15/2015	DP-088 07/15/2015	DP-089 07/15/2015
Sample Date										
Sample Name										
Sample Type										
Sample Depth (ft bgs)										
	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-086-SO-010-01 Primary 1	DP-086-SO-010-02 Duplicate 1	DP-086-SO-050-01 Primary 5	DP-087-SO-010-01 Primary 1	DP-087-SO-050-01 Primary 5	DP-088-SO-010-01 Primary 1	DP-088-SO-050-01 Primary 5	DP-089-SO-010-01 Primary 1
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	-	-	-	-	-	-	-	-
Antimony, Total	-	470	-	-	-	-	-	-	-	-
Arsenic, Total	-	3	-	-	-	-	-	-	-	-
Barium, Total	-	220000	-	-	-	-	-	-	-	-
Beryllium, Total	-	2300	-	-	-	-	-	-	-	-
Cadmium, Total	-	980	-	-	-	-	-	-	-	-
Calcium, Total	-	-	-	-	-	-	-	-	-	-
Chromium, Total	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	-	350	-	-	-	-	-	-	-	-
Copper, Total	-	47000	-	-	-	-	-	-	-	-
Iron, Total	-	820000	-	-	-	-	-	-	-	-
Lead, Total	-	800	-	-	-	-	-	-	-	-
Magnesium, Total	-	-	-	-	-	-	-	-	-	-
Manganese, Total	-	26000	-	-	-	-	-	-	-	-
Mercury, Total	-	40	-	-	-	-	-	-	-	-
Nickel, Total	-	22000	-	-	-	-	-	-	-	-
Potassium, Total	-	-	-	-	-	-	-	-	-	-
Selenium, Total	-	5800	-	-	-	-	-	-	-	-
Silver, Total	-	5800	-	-	-	-	-	-	-	-
Sodium, Total	-	-	-	-	-	-	-	-	-	-
Thallium, Total	-	12	-	-	-	-	-	-	-	-
Vanadium, Total	-	5800	-	-	-	-	-	-	-	-
Zinc, Total	-	350000	-	-	-	-	-	-	-	-
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	< 0.184	< 0.185	< 0.0373	< 0.0398	< 0.0382	< 0.0340	< 0.0371	< 0.0389
Aroclor-1221 (PCB-1221)	-	0.66	< 0.184	< 0.185	< 0.0373	< 0.0398	< 0.0382	< 0.0340	< 0.0371	< 0.0389
Aroclor-1232 (PCB-1232)	-	0.66	< 0.184	< 0.185	< 0.0373	< 0.0398	< 0.0382	< 0.0340	< 0.0371	< 0.0389
Aroclor-1242 (PCB-1242)	-	1	< 0.184	< 0.185	< 0.0373	< 0.0398	< 0.0382	< 0.0340	< 0.0371	< 0.0389
Aroclor-1248 (PCB-1248)	-	1	< 0.184	< 0.185	< 0.0373	< 0.0398	< 0.0382	< 0.0340	< 0.0371	< 0.0389
Aroclor-1254 (PCB-1254)	-	1	<b>0.580</b>	<b>0.532</b>	< 0.0373	< 0.0398	< 0.0382	< 0.0340	<b>0.578 P</b>	< 0.0389
Aroclor-1260 (PCB-1260)	-	1	<b>1.10</b>	<b>1.93</b>	< 0.0373	<b>0.0271 J</b>	<b>0.0112 J</b>	< 0.0340	< 0.0371	< 0.0389
Aroclor-1262 (PCB-1262)	-	-	< 0.184	< 0.185	< 0.0373	< 0.0398	< 0.0382	< 0.0340	< 0.0371	< 0.0389
Aroclor-1268 (PCB-1268)	-	-	< 0.184	< 0.185	< 0.0373	< 0.0398	< 0.0382	< 0.0340	< 0.0371	< 0.0389
Polychlorinated biphenyls (PCBs)	-	1	<b>1.68</b>	<b>2.46</b>	< 0.0373	<b>0.0271 J</b>	<b>0.0112 J</b>	< 0.0340	<b>0.578</b>	< 0.0389
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	-	-	-	-	-	-	-	-
2-Methylnaphthalene	-	3000	-	-	-	-	-	-	-	-
Acenaphthene	-	45000	-	-	-	-	-	-	-	-
Acenaphthylene	-	-	-	-	-	-	-	-	-	-

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-086 07/15/2015	DP-086 07/15/2015	DP-086 07/15/2015	DP-087 07/15/2015	DP-087 07/15/2015	DP-088 07/15/2015	DP-088 07/15/2015	DP-089 07/15/2015
Sample Date										
Sample Name										
Sample Type										
Sample Depth (ft bgs)	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-086-SO-010-01 Primary 1	DP-086-SO-010-02 Duplicate 1	DP-086-SO-050-01 Primary 5	DP-087-SO-010-01 Primary 1	DP-087-SO-050-01 Primary 5	DP-088-SO-010-01 Primary 1	DP-088-SO-050-01 Primary 5	DP-089-SO-010-01 Primary 1
Anthracene	-	230000	-	-	-	-	-	-	-	-
Benzo(a)anthracene	-	2.9	-	-	-	-	-	-	-	-
Benzo(a)pyrene	-	0.29	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	-	2.9	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	-	29	-	-	-	-	-	-	-	-
Chrysene	-	290	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	-	0.29	-	-	-	-	-	-	-	-
Fluoranthene	-	30000	-	-	-	-	-	-	-	-
Fluorene	-	30000	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	-	2.9	-	-	-	-	-	-	-	-
Naphthalene	-	17	-	-	-	-	-	-	-	-
Phenanthrene	-	-	-	-	-	-	-	-	-	-
Pyrene	-	23000	-	-	-	-	-	-	-	-
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	-	-	-	-	-	-	-	-

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-089 07/15/2015	DP-090 07/15/2015	DP-090 07/15/2015	DP-091 07/15/2015	DP-091 07/15/2015	DP-092 07/15/2015	DP-092 07/15/2015	DP-092 07/15/2015
Sample Date										
Sample Name										
Sample Type										
Sample Depth (ft bgs)										
	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-089-SO-050-01 Primary 5	DP-090-SO-050-01 Primary 5	DP-090-SO-100-01 Primary 10	DP-091-SO-050-01 Primary 5	DP-091-SO-100-01 Primary 10	DP-092-SO-010-01 Primary 1	DP-092-SO-050-01 Primary 5	DP-092-SO-100-01 Primary 10
<b>Inorganic Compounds (mg/kg)</b>										
Aluminum, Total	-	1.10E+06	-	-	-	-	-	-	-	-
Antimony, Total	-	470	-	-	-	-	-	-	-	-
Arsenic, Total	-	3	-	-	-	-	-	-	-	-
Barium, Total	-	220000	-	-	-	-	-	-	-	-
Beryllium, Total	-	2300	-	-	-	-	-	-	-	-
Cadmium, Total	-	980	-	-	-	-	-	-	-	-
Calcium, Total	-	-	-	-	-	-	-	-	-	-
Chromium, Total	-	-	-	-	-	-	-	-	-	-
Cobalt, Total	-	350	-	-	-	-	-	-	-	-
Copper, Total	-	47000	-	-	-	-	-	-	-	-
Iron, Total	-	820000	-	-	-	-	-	-	-	-
Lead, Total	-	800	-	-	-	-	-	-	-	-
Magnesium, Total	-	-	-	-	-	-	-	-	-	-
Manganese, Total	-	26000	-	-	-	-	-	-	-	-
Mercury, Total	-	40	-	-	-	-	-	-	-	-
Nickel, Total	-	22000	-	-	-	-	-	-	-	-
Potassium, Total	-	-	-	-	-	-	-	-	-	-
Selenium, Total	-	5800	-	-	-	-	-	-	-	-
Silver, Total	-	5800	-	-	-	-	-	-	-	-
Sodium, Total	-	-	-	-	-	-	-	-	-	-
Thallium, Total	-	12	-	-	-	-	-	-	-	-
Vanadium, Total	-	5800	-	-	-	-	-	-	-	-
Zinc, Total	-	350000	-	-	-	-	-	-	-	-
<b>PCBs (mg/kg)</b>										
Aroclor-1016 (PCB-1016)	-	30	< 0.0379	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	-	0.66	< 0.0379	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	-	0.66	< 0.0379	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	-	1	< 0.0379	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	-	1	< 0.0379	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	-	1	< 0.0379	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	-	1	< 0.0379	-	-	-	-	-	-	-
Aroclor-1262 (PCB-1262)	-	-	< 0.0379	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	-	-	< 0.0379	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	-	1	< 0.0379	-	-	-	-	-	-	-
<b>PAHs (mg/kg)</b>										
2-Chloronaphthalene	-	93000	-	-	-	-	-	< 0.99	< 0.20	< 0.96
2-Methylnaphthalene	-	3000	-	-	-	-	-	<b>31</b>	<b>3.8</b>	<b>25</b>
Acenaphthene	-	45000	-	-	-	-	-	< 0.79	< 0.16	<b>1.1</b>
Acenaphthylene	-	-	-	-	-	-	-	<b>0.69 J</b>	< 0.16	< 0.77

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-089 07/15/2015	DP-090 07/15/2015	DP-090 07/15/2015	DP-091 07/15/2015	DP-091 07/15/2015	DP-092 07/15/2015	DP-092 07/15/2015	DP-092 07/15/2015
Sample Date										
Sample Name		EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-089-SO-050-01	DP-090-SO-050-01	DP-090-SO-100-01	DP-091-SO-050-01	DP-091-SO-100-01	DP-092-SO-010-01	DP-092-SO-050-01	DP-092-SO-100-01
Sample Type	DC Tier 0 Soil Standards <sup>1</sup>		Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Depth (ft bgs)			5	5	10	5	10	1	5	10
Anthracene	-	230000	-	-	-	-	-	<b>0.31 J</b>	< 0.12	< 0.58
Benzo(a)anthracene	-	2.9	-	-	-	-	-	< 0.59	< 0.12	< 0.58
Benzo(a)pyrene	-	0.29	-	-	-	-	-	< 0.79	< 0.16	< 0.77
Benzo(b)fluoranthene	-	2.9	-	-	-	-	-	< 0.59	< 0.12	< 0.58
Benzo(g,h,i)perylene	-	-	-	-	-	-	-	< 0.79	< 0.16	< 0.77
Benzo(k)fluoranthene	-	29	-	-	-	-	-	< 0.59	< 0.12	< 0.58
Chrysene	-	290	-	-	-	-	-	< 0.59	< 0.12	< 0.58
Dibenz(a,h)anthracene	-	0.29	-	-	-	-	-	< 0.59	< 0.12	< 0.58
Fluoranthene	-	30000	-	-	-	-	-	< 0.59	< 0.12	< 0.58
Fluorene	-	30000	-	-	-	-	-	<b>4.0</b>	<b>0.43</b>	<b>3.2</b>
Indeno(1,2,3-cd)pyrene	-	2.9	-	-	-	-	-	< 0.79	< 0.16	< 0.77
Naphthalene	-	17	-	-	-	-	-	<b>10</b>	<b>1.0</b>	<b>6.6</b>
Phenanthrene	-	-	-	-	-	-	-	<b>7.0</b>	<b>0.87</b>	<b>5.2</b>
Pyrene	-	23000	-	-	-	-	-	<b>0.29 J</b>	< 0.12	<b>0.30 J</b>
<b>Total Petroleum Hydrocarbons (mg/kg)</b>										
Gasoline Range Organics	100	-	-	< 2.9	< 2.7	< 2.9	< 2.7	<b>240</b>	<b>150</b>	<b>320</b>
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	-	<b>5.46 J</b>	<b>7.55 J</b>	<b>8.03 J</b>	<b>7.02 J</b>	<b>6,370</b>	<b>1,860</b>	<b>8,650</b>

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)



**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-093 07/15/2015	DP-093 07/15/2015	DP-093 07/15/2015	DP-094 07/15/2015	DP-094 07/15/2015
Sample Date							
Sample Name			DP-093-SO-050-01	DP-093-SO-100-01	DP-093-SO-100-02	DP-094-SO-050-01	DP-094-SO-100-01
Sample Type			Primary	Primary	Duplicate	Primary	Primary
Sample Depth (ft bgs)			5	10	10	5	10
<b>Inorganic Compounds (mg/kg)</b>							
Aluminum, Total	-	1.10E+06	-	-	-	-	-
Antimony, Total	-	470	-	-	-	-	-
Arsenic, Total	-	3	-	-	-	-	-
Barium, Total	-	220000	-	-	-	-	-
Beryllium, Total	-	2300	-	-	-	-	-
Cadmium, Total	-	980	-	-	-	-	-
Calcium, Total	-	-	-	-	-	-	-
Chromium, Total	-	-	-	-	-	-	-
Cobalt, Total	-	350	-	-	-	-	-
Copper, Total	-	47000	-	-	-	-	-
Iron, Total	-	820000	-	-	-	-	-
Lead, Total	-	800	-	-	-	-	-
Magnesium, Total	-	-	-	-	-	-	-
Manganese, Total	-	26000	-	-	-	-	-
Mercury, Total	-	40	-	-	-	-	-
Nickel, Total	-	22000	-	-	-	-	-
Potassium, Total	-	-	-	-	-	-	-
Selenium, Total	-	5800	-	-	-	-	-
Silver, Total	-	5800	-	-	-	-	-
Sodium, Total	-	-	-	-	-	-	-
Thallium, Total	-	12	-	-	-	-	-
Vanadium, Total	-	5800	-	-	-	-	-
Zinc, Total	-	350000	-	-	-	-	-
<b>PCBs (mg/kg)</b>							
Aroclor-1016 (PCB-1016)	-	30	-	-	-	-	-
Aroclor-1221 (PCB-1221)	-	0.66	-	-	-	-	-
Aroclor-1232 (PCB-1232)	-	0.66	-	-	-	-	-
Aroclor-1242 (PCB-1242)	-	1	-	-	-	-	-
Aroclor-1248 (PCB-1248)	-	1	-	-	-	-	-
Aroclor-1254 (PCB-1254)	-	1	-	-	-	-	-
Aroclor-1260 (PCB-1260)	-	1	-	-	-	-	-
Aroclor-1262 (PCB-1262)	-	-	-	-	-	-	-
Aroclor-1268 (PCB-1268)	-	-	-	-	-	-	-
Polychlorinated biphenyls (PCBs)	-	1	-	-	-	-	-
<b>PAHs (mg/kg)</b>							
2-Chloronaphthalene	-	93000	< 0.18	< 0.19	< 0.18	< 0.20	< 0.18
2-Methylnaphthalene	-	3000	< 0.22	< 0.23	< 0.22	< 0.24	< 0.22
Acenaphthene	-	45000	< 0.15	< 0.15	< 0.14	< 0.16	< 0.14
Acenaphthylene	-	-	< 0.15	< 0.15	< 0.14	< 0.16	< 0.14

**TABLE 1**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - METALS, PCBs, PAHs, AND TPH  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-093 07/15/2015	DP-093 07/15/2015	DP-093 07/15/2015	DP-094 07/15/2015	DP-094 07/15/2015
Sample Date							
Sample Name							
Sample Type	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-093-SO-050-01 Primary	DP-093-SO-100-01 Primary	DP-093-SO-100-02 Duplicate	DP-094-SO-050-01 Primary	DP-094-SO-100-01 Primary
Sample Depth (ft bgs)			5	10	10	5	10
Anthracene	-	230000	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11
Benzo(a)anthracene	-	2.9	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11
Benzo(a)pyrene	-	0.29	< 0.15	< 0.15	< 0.14	< 0.16	< 0.14
Benzo(b)fluoranthene	-	2.9	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11
Benzo(g,h,i)perylene	-	-	< 0.15	< 0.15	< 0.14	< 0.16	< 0.14
Benzo(k)fluoranthene	-	29	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11
Chrysene	-	290	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11
Dibenz(a,h)anthracene	-	0.29	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11
Fluoranthene	-	30000	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11
Fluorene	-	30000	< 0.18	< 0.19	< 0.18	< 0.20	< 0.18
Indeno(1,2,3-cd)pyrene	-	2.9	< 0.15	< 0.15	< 0.14	< 0.16	< 0.14
Naphthalene	-	17	< 0.18	< 0.19	< 0.18	< 0.20	< 0.18
Phenanthrene	-	-	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11
Pyrene	-	23000	< 0.11	< 0.12	< 0.11	< 0.12	< 0.11
<b>Total Petroleum Hydrocarbons (mg/kg)</b>							
Gasoline Range Organics	100	-	< 2.8	< 2.7	< 2.7	< 3.0	< 2.7
Total Petroleum Hydrocarbons (C9-C44) DRO	100	-	<b>4.83 J</b>	<b>9.27 J</b>	<b>11.1 J</b>	<b>5.60 J</b>	<b>5.19 J</b>

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- P = relative percent difference between results for the two columns exceeds the method-specified criteria
- PCBs = polychlorinated biphenyls
- PAHs = polycyclic aromatic hydrocarbons
- TPH = total petroleum hydrocarbons
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)

**TABLE 2**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location			DP-057 07/10/2015	DP-061 07/10/2015	DP-066 07/13/2015	DP-092 07/15/2015	DP-092 07/15/2015	DP-092 07/15/2015
Sample Date			DP-057-SO-050-01	DP-061-SO-050-01	DP-066-SO-050-01	DP-092-SO-010-01	DP-092-SO-050-01	DP-092-SO-100-01
Sample Name	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	Primary	Primary	Primary	Primary	Primary	Primary
Sample Type			5	5	5	1	5	10
Sample Depth (ft bgs)								
<b>Volatile Organic Compounds (mg/kg)</b>								
1,1,1-Trichloroethane	-	36000	< 0.058	< 0.061	< 0.059	< 0.60	< 0.12	< 1.5
1,1,2,2-Tetrachloroethane	-	2.7	< 0.058	< 0.061	< 0.059	< 0.60	< 0.12	< 1.5
1,1,2-Trichloroethane	-	5	< 0.087	< 0.091	< 0.088	< 0.89	< 0.18	< 2.2
1,1-Dichloroethane	-	16	< 0.087	< 0.091	< 0.088	< 0.89	< 0.18	< 2.2
1,1-Dichloroethene	-	1000	< 0.058	< 0.061	< 0.059	< 0.60	< 0.12	< 1.5
1,2,3-Trichlorobenzene	-	660	< 0.29	< 0.30	< 0.29	< 3.0	< 0.60	< 7.3
1,2,4-Trichlorobenzene	-	110	< 0.29	< 0.30	< 0.29	< 3.0	< 0.60	< 7.3
1,2-Dibromo-3-chloropropane (DBCP)	-	0.064	< 0.29	< 0.30	< 0.29	< 3.0	< 0.60	< 7.3
1,2-Dibromoethane (Ethylene Dibromide)	-	0.16	< 0.23	< 0.24	< 0.23	< 2.4	< 0.48	< 5.9
1,2-Dichlorobenzene	-	9300	< 0.29	< 0.30	< 0.29	< 3.0	< 0.60	< 7.3
1,2-Dichloroethane	-	2	< 0.058	< 0.061	< 0.059	< 0.60	< 0.12	< 1.5
1,2-Dichloroethene (total)	-	-	< 0.058	< 0.061	<b>0.027 J</b>	< 0.60	< 0.12	< 1.5
1,2-Dichloropropane	-	4.4	< 0.20	< 0.21	< 0.20	< 2.1	< 0.42	< 5.1
1,3-Dichlorobenzene	-	-	< 0.29	< 0.30	< 0.29	< 3.0	< 0.60	< 7.3
1,3-Dichloropropene	-	8.2	< 0.058	< 0.061	< 0.059	< 0.60	< 0.12	< 1.5
1,4-Dichlorobenzene	-	11	< 0.29	< 0.30	< 0.29	< 3.0	< 0.60	< 7.3
1,4-Dioxane	-	23	< 5.8	< 6.1	< 5.9	< 60	< 12	< 150
2-Butanone (Methyl Ethyl Ketone)	-	190000	< 0.58	<b>0.060 J</b>	< 0.59	< 6.0	< 1.2	< 15
2-Hexanone	-	1300	< 0.58	< 0.61	< 0.59	< 6.0	< 1.2	< 15
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	-	56000	< 0.58	< 0.61	< 0.59	< 6.0	< 1.2	< 15
Acetone	-	670000	<b>0.12 J</b>	<b>0.23 J</b>	< 2.1	< 21	< 4.3	< 53
Benzene	0.005	5.1	< 0.058	< 0.061	< 0.059	< 0.60	< 0.12	< 1.5
Bromodichloromethane	-	1.3	< 0.058	< 0.061	< 0.059	< 0.60	< 0.12	< 1.5
Bromoform	-	290	< 0.23	< 0.24	< 0.23	< 2.4	< 0.48	< 5.9
Bromomethane (Methyl Bromide)	-	30	<b>0.024 J</b>	<b>0.026 J</b>	< 0.12	< 1.2	< 0.24	< 2.9
Carbon disulfide	-	3500	< 0.58	< 0.61	< 0.59	< 6.0	< 1.2	< 15
Carbon tetrachloride	-	2.9	< 0.058	< 0.061	< 0.059	< 0.60	< 0.12	< 1.5
Chlorobenzene	-	1300	< 0.058	< 0.061	< 0.059	< 0.60	< 0.12	< 1.5
Chlorobromomethane	-	630	< 0.29	< 0.30	< 0.29	< 3.0	< 0.60	< 7.3
Chloroethane	-	57000	< 0.12	< 0.12	< 0.12	< 1.2	< 0.24	< 2.9
Chloroform (Trichloromethane)	-	1.4	< 0.087	< 0.091	< 0.088	< 0.89	< 0.18	< 2.2
Chloromethane (Methyl Chloride)	-	460	< 0.29	< 0.30	< 0.29	< 3.0	< 0.60	< 7.3
cis-1,2-Dichloroethene	-	2300	< 0.058	< 0.061	<b>0.027 J</b>	< 0.60	< 0.12	< 1.5
cis-1,3-Dichloropropene	-	-	< 0.058	< 0.061	< 0.059	< 0.60	< 0.12	< 1.5
Cyclohexane	-	27000	< 1.2	< 1.2	< 1.2	< 12	< 2.4	< 29
Dibromochloromethane	-	3.2	< 0.058	< 0.061	< 0.059	< 0.60	< 0.12	< 1.5
Dichlorodifluoromethane (CFC-12)	-	370	< 0.58	< 0.61	< 0.59	< 6.0	< 1.2	< 15
Ethylbenzene	0.04	25	< 0.058	< 0.061	< 0.059	<b>0.60</b>	<b>0.16</b>	<b>1.0 J</b>
Isopropylbenzene	-	9900	< 0.058	< 0.061	< 0.059	<b>0.40 J</b>	<b>0.12</b>	<b>0.71 J</b>

**TABLE 2**  
 SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs  
 POTOMAC ELECTRIC POWER COMPANY PARCEL AT BUZZARD POINT, SQUARE 0661, LOTS 0804, 0805, AND SQUARE 0661, LOT 0024  
 WASHINGTON, D.C.

Location	DC Tier 0 Soil Standards <sup>1</sup>	EPA Regional Screening Level for Industrial Soil <sup>2</sup>	DP-057 07/10/2015 DP-057-SO-050-01 Primary 5	DP-061 07/10/2015 DP-061-SO-050-01 Primary 5	DP-066 07/13/2015 DP-066-SO-050-01 Primary 5	DP-092 07/15/2015 DP-092-SO-010-01 Primary 1	DP-092 07/15/2015 DP-092-SO-050-01 Primary 5	DP-092 07/15/2015 DP-092-SO-100-01 Primary 10
m,p-Xylenes	-	-	< 0.12	< 0.12	< 0.12	<b>2.2</b>	<b>0.61</b>	<b>3.5</b>
Methyl acetate	-	1.20E+06	< 0.23	< 0.24	< 0.23	< 2.4	< 0.48	< 5.9
Methyl cyclohexane	-	-	<b>0.084 J</b>	< 0.24	< 0.23	<b>1.1 J</b>	<b>0.28 J</b>	<b>2.2 J</b>
Methyl Tert Butyl Ether	-	210	< 0.12	< 0.12	< 0.12	< 1.2	< 0.24	< 2.9
Methylene chloride	-	1000	< 0.29	< 0.30	< 0.29	< 3.0	< 0.60	< 7.3
o-Xylene	-	2800	<b>0.098 J</b>	< 0.12	< 0.12	<b>1.1 J</b>	<b>0.30</b>	<b>1.6 J</b>
Styrene	-	35000	< 0.12	< 0.12	< 0.12	< 1.2	< 0.24	< 2.9
Tetrachloroethene	-	100	<b>3.6</b>	< 0.061	<b>0.070</b>	< 0.60	< 0.12	< 1.5
Toluene	9.6	47000	< 0.087	< 0.091	< 0.088	<b>0.14 J</b>	<b>0.034 J</b>	< 2.2
trans-1,2-Dichloroethene	-	23000	< 0.087	< 0.091	< 0.088	< 0.89	< 0.18	< 2.2
trans-1,3-Dichloropropene	-	-	< 0.058	< 0.061	< 0.059	< 0.60	< 0.12	< 1.5
Trichloroethene	-	6	< 0.058	< 0.061	< 0.059	< 0.60	< 0.12	< 1.5
Trichlorofluoromethane (CFC-11)	-	3100	< 0.29	< 0.30	< 0.29	< 3.0	< 0.60	< 7.3
Trifluorotrchloroethane (Freon 113)	-	170000	< 1.2	< 1.2	< 1.2	< 12	< 2.4	< 29
Vinyl chloride	-	1.7	< 0.12	< 0.12	< 0.12	< 1.2	< 0.24	< 2.9
Xylene (total)	3.86	2500	<b>0.098 J</b>	< 0.12	< 0.12	<b>3.3 J</b>	<b>0.91</b>	<b>5.1 J</b>

**NOTES**

- Bold where detected; highlighted where exceeds
- Results reported in mg/kg
- mg/kg = milligrams per kilogram
- ft bgs = feet below ground surface
- = screening level not available/sample not analyzed
- < = not detected at the indicated reporting limit
- J = estimated value
- VOCs = volatile organic compounds
- 1. DC Tier 0 Standards from the Tier 0 Standard Final Rulemaking published at 40 DCR 7835, 7892 (November 12, 1993); as amended by Final Rulemaking published at 46 DCR 7699 (October 1, 1999)
- 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)

**TABLE 3**  
**ORDER OF MAGNITUDE SOIL REMEDIATION COSTS**  
**POTOMAC ELECTRIC POWER COMPANY, PARCELS AT BUZZARD POINT, SQUARE 0661, LOT 0805, SQUARE 0661, LOT 0804, SQUARE 0665, LOT 0024**  
**WASHINGTON, D.C.**

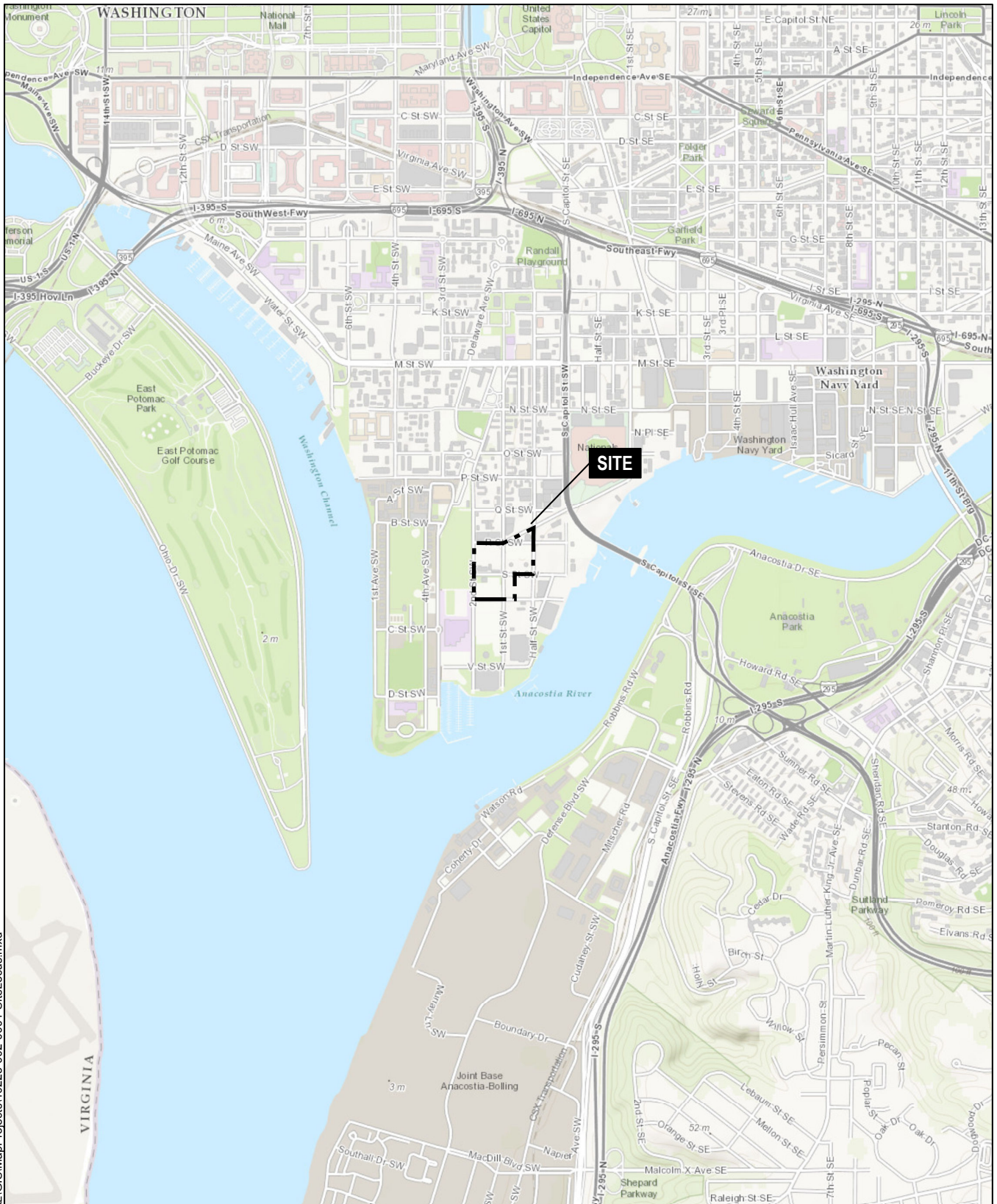
Areas of Potential Concern	Investigation Findings	Potential Impact on Proposed Development	Potential Remedies	Excavation Depth (ft bgs)	Order of Magnitude Opinion of Cost (Range)			
Historical Boring Location GTW-661-805-1	TPH-DRO was detected in soil samples above soil screening levels  <u>Boring Locations</u> DP-048 through DP-052	Soil excavated during construction with TPH-DRO concentrations exceeding screening levels is not appropriate for unrestricted use as fill (may require appropriate treatment/disposal).	1. Prepare a Soil Management Plan to guide construction activities and proper management of impacted soil encountered during construction and dispose of impacted soil excavated during construction as non-hazardous waste at an off-site disposal facility.	10	\$ 29,015	Localized impacted soil with concentrations of TPH-DRO requires off-site disposal ( <b>approximately 148 cubic yards</b> ) and a site-specific background metals evaluation is performed to verify that concentrations of arsenic in soil are within background levels. Estimate \$27.50 per ton for transportation and disposal.	\$ 76,560	Impacted soil with concentrations of TPH-DRO requires off-site disposal ( <b>approximately 593 cubic yards</b> ). Estimate \$27.50 per ton for transportation and disposal.
Western Coverage of Square 0661, Lot 0805	TPH-DRO, PAHs, and metals were detected in soil samples above soil screening levels  <u>Boring Locations</u> DP-053 through DP-055	Soil excavated during construction with metals, PAH, and TPH-DRO concentrations exceeding screening levels is not appropriate for unrestricted use as fill (may require appropriate treatment/disposal).	1. Prepare a Soil Management Plan to guide construction activities and proper management of impacted soil encountered during construction and dispose of impacted soil excavated during construction as non-hazardous waste at an off-site disposal facility.  2. Conduct a background metals evaluation to potentially reduce the volume of soil requiring off-site disposal based on metals concentrations.	10	\$ 66,390	Localized impacted soil with concentrations of PAHs and TPH-DRO requires off-site disposal ( <b>approximately 444 cubic yards</b> ) and a site-specific background metals evaluation is performed to verify that concentrations of arsenic in soil are within background levels. Estimate \$27.50 per ton for transportation and disposal.	\$ 146,200	Impacted soil with concentrations of metals, PAHs, and TPH-DRO requires off-site disposal ( <b>approximately 1,779 cubic yards</b> ). Estimate \$27.50 per ton for transportation and disposal.
Historical Boring Location GTW-661-804-2	TPH-GRO, TPH-DRO, and VOCs was detected in soil samples above soil screening levels  <u>Boring Locations</u> DP-056 through DP-057 DP-060 DP-062 DP-072 through DP-076 DP-092	Soil excavated during construction with TPH-GRO, TPH-DRO, and VOC concentrations exceeding screening levels is not appropriate for unrestricted use as fill (may require appropriate treatment/disposal).	1. Prepare a Soil Management Plan to guide construction activities and proper management of impacted soil encountered during construction and dispose of impacted soil excavated during construction as non-hazardous waste at an off-site disposal facility.	10	\$ 55,983	Localized impacted soil with concentrations of TPH-GRO, TPH-DRO, and VOCs requires off-site disposal ( <b>approximately 385 cubic yards</b> ) and a site-specific background metals evaluation is performed to verify that concentrations of arsenic in soil are within background levels. Estimate \$27.50 per ton for transportation and disposal.	\$ 114,650	Impacted soil with concentrations of TPH-GRO, TPH-DRO, and VOCs requires off-site disposal ( <b>approximately 1,363 cubic yards</b> ). Estimate \$27.50 per ton for transportation and disposal.
Historical Boring Location GTWO-661-804-3	TPH-DRO and PAHs were detected in soil samples above soil screening levels  <u>Boring Locations</u> DP-058 through DP-059 DP-061 DP-063 through DP-069	Soil excavated during construction with PAH and TPH-DRO concentrations exceeding screening levels is not appropriate for unrestricted use as fill (may require appropriate treatment/disposal).	1. Prepare a Soil Management Plan to guide construction activities and proper management of impacted soil encountered during construction and dispose of impacted soil excavated during construction as non-hazardous waste at an off-site disposal facility.	10	\$ 205,730	Localized impacted soil with concentrations of PAHs and TPH-DRO requires off-site disposal ( <b>approximately 3,111 cubic yards</b> ) and a site-specific background metals evaluation is performed to verify that concentrations of arsenic in soil are within background levels. Estimate \$27.50 per ton for transportation and disposal.	\$ 294,223	Impacted soil with concentrations of TPH-DRO and PAHs requires off-site disposal ( <b>approximately 4,667 cubic yards</b> ). Estimate \$27.50 per ton for transportation and disposal.

**TABLE 3**  
**ORDER OF MAGNITUDE SOIL REMEDIATION COSTS**  
 POTOMAC ELECTRIC POWER COPANY, PARCELS AT BUZZARD POINT, SQUARE 0661, LOT 0805, SQUARE 0661, LOT 0804, SQUARE 0665, LOT 0024  
 WASHINGTON, D.C.

Areas of Potential Concern	Investigation Findings	Potential Impact on Proposed Development	Potential Remedies	Excavation Depth (ft bgs)	Order of Magnitude Opinion of Cost (Range)			
GTW-661-24-1	PCBs were detected in soil samples above soil screening levels  Boring Locations DP-079 through DP-089	Soil excavated during construction with PCB concentrations exceeding screening levels is not appropriate for unrestricted use as fill (may require appropriate treatment/disposal).	1. Prepare a Soil Management Plan to guide construction activities and proper management of impacted soil encountered during construction and dispose of impacted soil excavated during construction as non-hazardous waste at an off-site disposal facility.	10	\$ 28,940	Localized impacted soil with concentrations of PCBs require off-site disposal ( <b>approximately 148 cubic yards</b> ) and a site-specific background metals evaluation is performed to verify that concentrations of arsenic in soil are within background levels. Estimate \$27.50 per ton for transportation and disposal.	\$ 61,260	Impacted soil with concentrations of PCBs requires off-site disposal ( <b>approximately 593 cubic yards</b> ). Estimate \$27.50 per ton for transportation and disposal.
<b>Order of Magnitude Cost Range for Impacts on Proposed Development from Identified Areas of Potential Concern:</b>				<b>10</b>	<b>\$ 390,000</b>	<b>to</b>	<b>\$ 690,000</b>	Cost total from AOPCs above
				<b>N/A</b>	<b>N/A</b>		<b>\$ 4,570,000</b>	Cost to profile and dispose of soil to the specified depth for the entire site (i.e., chemicals in soil above soil screening levels are not just limited to the identified AOPCs but are prevalent throughout the site).

**NOTES**  
 1. Soil screening levels are the lower of the DC Tier 0 Standards and the EPA Regional Screening Levels for industrial soil  
 ft bgs = feet below ground surface  
 TPH-GRO = gasoline range total petroleum hydrocarbons  
 TPH-DRO = diesel range total petroleum hydrocarbons  
 PAH = polycyclic aromatic hydrocarbon  
 VOC = volatile organic compounds  
 AOPC = area of potential concern  
 N/A = not applicable

**GENERAL ASSUMPTIONS**  
 Order of magnitude costs are for discussion and planning purposes only and are not budgetary costs  
 Costs do not include impacts to adjacent properties  
 Waste disposal costs include transportation and disposal only; loading and stockpile management costs are assumed to be part of the redevelopment contractor costs  
 Costs do not include additional investigation/delineation sampling  
 Costs do not include groundwater remediation, dewatering mitigation, or potential vapor intrusion mitigation  
 Profiling sampling frequency and analyses may change based on disposal facility requirements  
 Costs do not include preparation and implementation of a Stormwater Pollution Prevention Plan  
 Costs include on-site monitoring during soil/groundwater removal (assume \$2,000 per day, excavating 250 cubic yards of impacted soil per day)  
 Confirmation sampling frequency based on 1 sample per 400 square feet of excavation bottom. Analyses based on chemicals exceeding soil screening levels.



C:\projects\40223\_BuzzardPoint\GLOBAL\GIS\MapProjects\40223-002-0001-SiteLocus.mxd

MAP SOURCE: ESRI      SITE COORDINATES : 38°52'06.68"N , 77°00'44.12"W



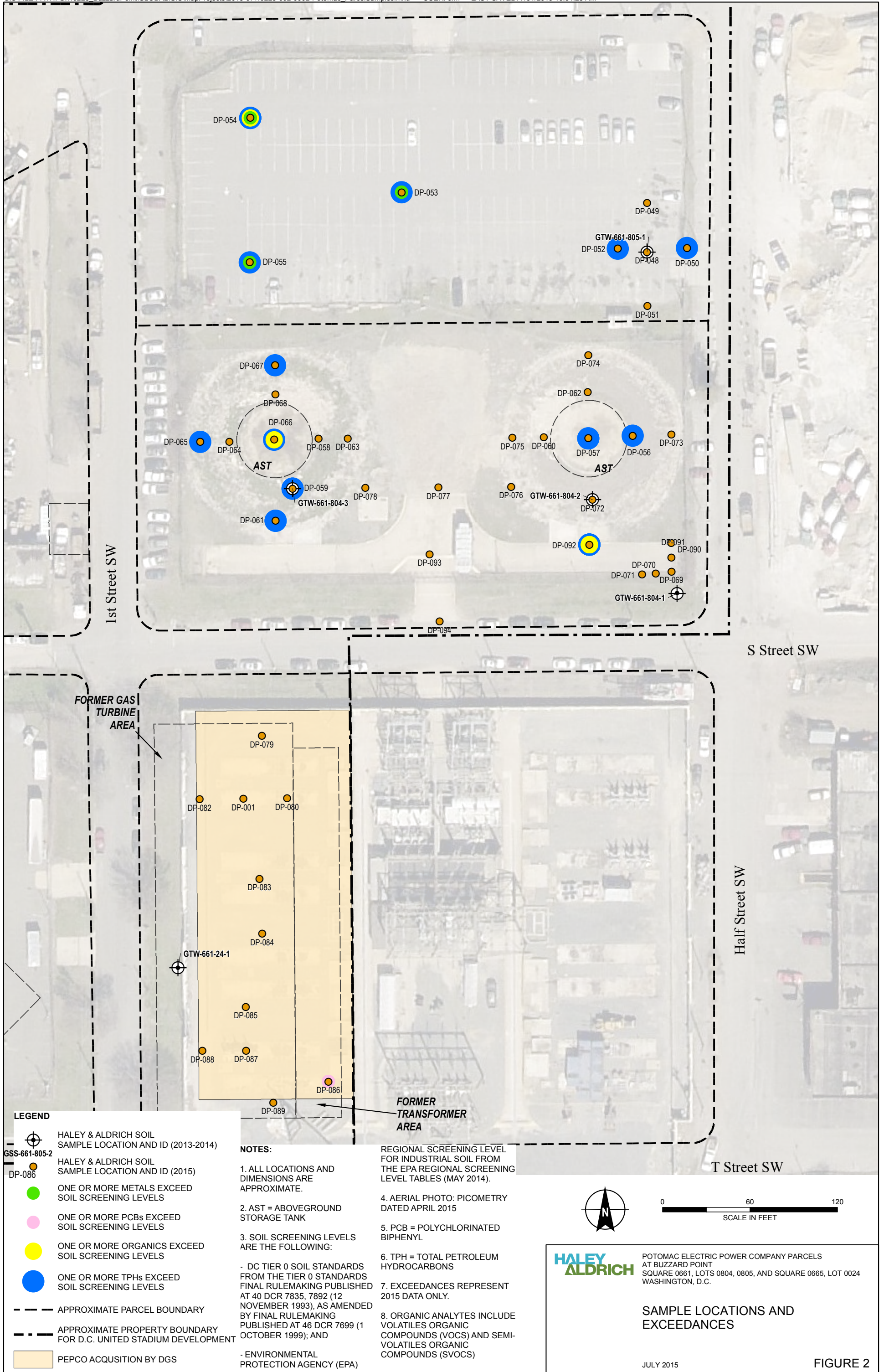
**HALEY  
ALDRICH**

POTOMAC ELECTRIC POWER COMPANY  
PARCEL AT BUZZARD POINT, SQUARE 0605, LOT 0007  
WASHINGTON D.C.

**SITE LOCUS**

APPROXIMATE SCALE: 1 IN = 2,000 FT  
JULY 2015

**FIGURE 1**





## **APPENDIX A**

### **Boring Logs**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0805  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 60		ND	0.5	SM	ASPHALT Dense tan-brown to red-brown sandy SILT with gravel, no odor, moist
						-FILL-
5	G2 60	4.5 5.0	ND			
				8.0	CL	Red-brown sandy lean CLAY, no odor, moist
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT

Water Level Data				Sample ID	Well Diagram	Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0
			Bottom of Casing	Bottom of Hole	Water			Rock Cored (ft) -
							Samples 2G	
							<b>Boring No. DP-048</b>	

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0661 Lot 0805  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0						ASPHALT
	G1 60			0.5	SM	Dense tan brown sandy SILT with gravel, no odor, moist
						-FILL-
						Grades to red-brown at 4.0 ft
5		4.5 5.0	ND			
	G2 60					
				8.0	CL	Red-brown silty lean CLAY, no odor, moist
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT

L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT H&A-GEOPROBE-09 W/PID-3

Water Level Data				Sample ID	Well Diagram	Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0
			Bottom of Casing	Bottom of Hole	Water			Rock Cored (ft) -
							Samples 2G	
						<b>Boring No. DP-049</b>		

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0805  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 60		ND	0.5	SM	ASPHALT Dense tan-brown sandy SILT with gravel, no odor, moist, grades to red-brown at 4.0 ft
						-FILL-
5	G2 60	4.5 5.0	ND	7.0	CL	Red-brown sandy lean CLAY, no odor, moist
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to:	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0 Rock Cored (ft) - Samples 2G <b>Boring No. DP-050</b>
			Bottom of Casing			
			Bottom of Hole			

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0661 Lot 0805  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION
						(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 60		ND	0.5	SM	ASPHALT Dense tan-brown sandy SILT with gravel, no odor, moist, grades to red-brown at 4.0 ft
						-FILL-
5	G2 60	4.5 5.0	ND	7.0	CL	Red-brown sandy lean CLAY, no odor, moist
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT

L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT H&A-GEOPROBE-09 W/PID-3

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to:	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0 Rock Cored (ft) - Samples 2G <b>Boring No. DP-051</b>
			Bottom of Casing			
			Bottom of Hole			

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High  
 Plasticity: N - Nonplastic L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**



# GEOPROBE REPORT

**Boring No. DP-052**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0805  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 60		ND	0.5	SM	ASPHALT Dense tan-brown sandy SILT with gravel, no odor, dry
						-FILL-
5	G2	4.5 5.0	ND			
				8.0	CL	Red-brown silty lean CLAY, no odor, moist
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-052</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0661 Lot 0805  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M. Robins/J. Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 61	0.5 1.0	ND	0.3	SM	BITUMINOUS ASPHALT Gray to tan silty SAND, trace gravel, no odor
5	G2 62	4.5 5.0	ND			-FILL-
10		9.5 10.0		10.0		Note: 65-70% gravel/crushed cobbles from 9.0 to 10.0 ft.  BOTTOM OF EXPLORATION 10.0 FT

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to:	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0 Rock Cored (ft) - Samples 3G <b>Boring No. DP-053</b>
			Bottom of Casing			
			Bottom of Hole			
			Water			

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15



# GEOPROBE REPORT

**Boring No. DP-054**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0805  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M. Robins/J. Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 80		ND	0.5	SM	ASPHALT Gray to tan silty SAND with gravel, no odor, moist
						-FILL-
5	G2 60	4.5 5.0	ND		SM	Black SAND, no odor, brown-gray
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT
15						

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-054</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15





# GEOPROBE REPORT

**Boring No. DP-055**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0805  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION  (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 75		ND	0.5		ASPHALT
					Red brick	
1.0				SM	Tan silty SAND with gravel, no odor, moist	
						-FILL-
5	G2 50	4.5 5.0	ND			
10				9.5 10.0	10.0	
15						

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
						Overburden (ft) 10.0 Rock Cored (ft) - Samples 2G	
<b>Boring No. DP-055</b>							

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 50	0.5 1.0	ND		ML	Brown to tan sandy SILT, trace gravel, no odor, moist, 10-15% sandy lean clay
						-FILL-
5	G2 58	4.5 5.0	ND			
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT
15						

L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15 HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT H&A-GEOPROBE-09 W/PID-3

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing   Bottom of Hole   Water	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0 Rock Cored (ft) - Samples 3G <b>Boring No. DP-056</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**



# GEOPROBE REPORT

**Boring No. DP-057**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 60	0.5 1.0	ND		ML	Tan to brown sandy SILT, trace sandy lean clay, no odor, moist, trace pockets of well graded SAND
5	G2 41	4.5 5.0	ND			-FILL-
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT
15						

L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT H&A-GEOPROBE-09 W/PID-3

Water Level Data				Sample ID	Well Diagram	Summary			
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft)	10.0
			Bottom of Casing	Bottom of Hole	Water			Rock Cored (ft)	-
							Samples	3G	
						<b>Boring No.</b>	<b>DP-057</b>		

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 48	0.5 1.0	ND		ML/SM	Tan to brown sandy SILT intermixed with silty SAND, trace gravel, no odor, moist
						-FILL-
5	G2 53	4.5 5.0	ND			
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT
15						

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to:	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0 Rock Cored (ft) - Samples 3G <b>Boring No. DP-058</b>
			Bottom of Casing			
			Bottom of Hole			
			Water			

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1	0.5 1.0	ND	0.5	SM ML/SM	Grass at surface Dark brown to black silty SAND, no odor, moist, trace roots Tan to brown sandy SILT intermixed with silty SAND, trace gravel, no odor, moist
5	G2	4.5 5.0	ND			-FILL-
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT

Water Level Data				Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0 Rock Cored (ft) - Samples 3G	<b>Boring No. DP-059</b>
			Bottom of Casing	Bottom of Hole	Water				

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 38	0.5 1.0	ND		ML	Tan to light brown sandy SILT, trace gravel, no odor, moist, trace brick at 8.0 ft
						-FILL-
5	G2 41	4.5 5.0	ND			
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT
15						

L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15 HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT H&A-GEOPROBE-09 W/PID-3

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing   Bottom of Hole   Water	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0 Rock Cored (ft) - Samples 3G <b>Boring No. DP-060</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 44	0.5 1.0	ND	0.5	SM SP SM	Grass at surface Dark brown silty SAND, no odor, moist, trace roots Tan poorly graded SAND with silt, trace gravel, no odor, moist
						-FILL-
				4.0	CL	Tan to brown sandy lean CLAY, no odor, moist, wet at 6.0 ft, 5-10% pockets of lean clay
5	G2 60	4.5 5.0	ND			
				10.0		BOTTOM OF EXPLORATION 10.0 FT
10		9.5 10.0				
15						

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to:	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0 Rock Cored (ft) - Samples 3G <b>Boring No. DP-061</b>
			Bottom of Casing			
			Bottom of Hole			
			Water			

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 41	0.5 1.0	ND		ML	Tan to light brown sandy SILT, trace silty sand, no odor, moist, 10-15% pockets of poorly graded sand
						-FILL-
5	G2 48	4.5 5.0	ND			
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT
15						

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to:	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0
			Bottom of Casing			Rock Cored (ft) -
			Bottom of Hole			Samples 3G
			Water			<b>Boring No. DP-062</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**



Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1		ND	0.5		Grass at surface
		0.5 1.0			ML	Tan to brown sandy SILT, no odor, moist, trace pockets of silty sand and poorly graded sand
						-FILL-
5	G2	4.5 5.0	ND			
				10.0		BOTTOM OF EXPLORATION 10.0 FT

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-063</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 10 July 2015  
 Finish 10 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1	0.5 1.0	ND		SP	Tan to yellow-brown poorly graded SAND, trace gravel, trace pockets of silty sand
						-FILL-
5	G2	4.5 5.0	ND			
				7.0	ML	Dark gray SILT, no odor, wet, trace pockets of sandy silt
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to:	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0
			Bottom of Casing			Rock Cored (ft) -
			Bottom of Hole			Samples 3G
			Water			<b>Boring No. DP-064</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 13 July 2015  
 Finish 13 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 29	0.5	ND		SM	Tan to brown silty SAND, trace gravel, no odor, moist, trace brick, 5-10% pockets of poorly graded sand
		1.0				
5	G2 24	4.5	ND			-FILL-
		5.0				
9.0					ML	Gray sandy SILT, no odor, moist, trace roots, trace pockets of organic silt
10.0		9.5				BOTTOM OF EXPLORATION 10.0 FT
		10.0				

L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT H&A-GEOPROBE-09 W/PID-3

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to:	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0 Rock Cored (ft) - Samples 3G <b>Boring No. DP-065</b>
			Bottom of Casing			
			Bottom of Hole			

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 13 July 2015  
 Finish 13 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 44	0.5 1.0	ND	1.2	SP	Tan to yellow-brown poorly graded SAND, trace gravel, no odor, moist
SM					Tan to gray-brown silty SAND, no odor, moist, trace black staining from 2.0 to 2.5 ft, trace coal	
ML					Tan sandy SILT, no odor, moist	
5	G2 42	4.5 5.0	ND	10.0		
10						BOTTOM OF EXPLORATION 10.0 FT
15						

Water Level Data				Sample ID	Well Diagram	Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0
			Bottom of Casing	Bottom of Hole	Water			Rock Cored (ft) -
							Samples 3G	
						<b>Boring No. DP-066</b>		

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15



# GEOPROBE REPORT

**Boring No. DP-067**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 13 July 2015  
 Finish 13 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION
						(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0	G1 34	0.5 1.0	ND		SM	Tan to brown silty SAND, trace gravel, no odor, moist, single speck of staining at 4.2 ft
5	G2 52	4.5 5.0	ND	5.5	ML	Tan to brown sandy SILT, no odor, moist
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT

L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15 HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT H&A-GEOPROBE-09 W/PID-3

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing   Bottom of Hole   Water	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0 Rock Cored (ft) - Samples 3G <b>Boring No. DP-067</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High  
 Plasticity: N - Nonplastic L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 13 July 2015  
 Finish 13 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures	
Type			NA	Rig Make & Model:	
Inside Diameter (in.)			NA	Bit Type: Cutting Head	Elevation
Hammer Weight (lb)	NA	NA	-	Drill Mud: None	Datum NA
Hammer Fall (in.)	NA	NA	-	Casing:	Location See Plan
				Hoist/Hammer:	
				PID Make & Model: MiniRAE 2000	

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 40	0.5	ND		SM	Tan to dark brown silty SAND, no odor, moist, trace brick specks
		1.0				
				4.0	ML	-FILL-
5	G2 53	4.5	ND			Tan to light brown sandy SILT, trace gravel, no odor, moist, wet at 8.0 ft
		5.0				
10		9.5		10.0		BOTTOM OF EXPLORATION 10.0 FT
		10.0				

L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15 HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT H&A-GEOPROBE-09 W/PID-3

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to:	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0
			Bottom of Casing			Rock Cored (ft) -
			Bottom of Hole			Samples 3G
			Water			<b>Boring No. DP-068</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**



# GEOPROBE REPORT

**Boring No. DP-069**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 13 July 2015  
 Finish 13 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1			0.7	SP	Tan poorly graded SAND with silt, trace gravel, no odor, moist -FILL-
					ML	Tan to light brown sandy SILT, no odor, moist, trace pocket of silty sand
5	G2	4.5 5.0	ND			
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT
15						

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-069</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ Jul 31, 15



# GEOPROBE REPORT

**Boring No. DP-070**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 13 July 2015  
 Finish 13 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming  
 Elevation  
 Datum NA  
 Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 28	0.5	ND	1.0	SP	Tan poorly graded SAND with silt, trace silt and gravel, no odor, moist
		1.0			ML	-FILL- Tan to light brown sandy SILT, trace gravel, no odor, moist
5	G2 55	4.5	ND	10.0		
		5.0				
10		9.5				BOTTOM OF EXPLORATION 10.0 FT
		10.0				

L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ Jul 31, 15 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT H&A-GEOPROBE-09 W/PID-3

Water Level Data				Sample ID	Well Diagram	Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0
			Bottom of Casing	Bottom of Hole	Water			Rock Cored (ft) -
							Samples 2G	
						<b>Boring No. DP-070</b>		

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**



Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 13 July 2015  
 Finish 13 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1		ND	0.7	SP	Tan to brown poorly graded SAND. trace gravel, no odor, moist, trace pockets of silty sand
		0.5 1.0			ML	-FILL- Tan to light brown sandy SILT, trace fine gravel, no odor, moist, 15-20% pockets of silty sand
5	G2		ND	10.0		
		4.5 5.0				
10		9.5 10.0				BOTTOM OF EXPLORATION 10.0 FT
15						

Water Level Data				Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft)	Rock Cored (ft)
			Bottom of Casing	Bottom of Hole	Water				
								10.0	-
									3G
<b>Boring No. DP-071</b>									

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ Jul 31, 15



# GEOPROBE REPORT

**Boring No. DP-072**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 13 July 2015  
 Finish 13 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 37	0.5	ND	0.8	SC	Tan sandy lean CLAY. trace silt and gravel, no odor, moist
		1.0				ML/SM
5	G2 56	4.5	ND	10.0		
		5.0				
10		9.5				BOTTOM OF EXPLORATION 10.0 FT
		10.0				
15						

L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ Jul 31, 15 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT H&A-GEOPROBE-09 W/PID-3

Water Level Data				Sample ID	Well Diagram	Summary			
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft)	10.0
			Bottom of Casing	Bottom of Hole	Water			Rock Cored (ft)	-
							Samples	3G	
						<b>Boring No.</b>	<b>DP-072</b>		

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**



# GEOPROBE REPORT

**Boring No. DP-073**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 13 July 2015  
 Finish 13 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 51	0.5	ND	0.5	ML ML	Tan sandy SILT. trace gravel, no odor, moist
		1.0				-FILL-
						Tan sandy SILT, no odor, moist, trace pockets of silty sand
5	G2 35	4.5	ND			
		5.0				
10		9.5		10.0		BOTTOM OF EXPLORATION 10.0 FT
		10.0				

L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123 JUL 2015.GPJ Jul 31, 15 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT H&A-GEOPROBE-09 W/PID-3

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to:	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0 Rock Cored (ft) - Samples 3G <b>Boring No. DP-073</b>
			Bottom of Casing			
			Bottom of Hole			
			Water			

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High Plasticity: N - Nonplastic L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**



# GEOPROBE REPORT

**Boring No. DP-074**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 13 July 2015  
 Finish 13 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 38	0.5 1.0	ND		ML/SP	Tan to light brown sandy SILT intermixed with poorly graded SAND, trace gravel, no odor, moist
5	G2 50	4.5 5.0	ND			
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT
15						

L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ Jul 31, 15 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT H&A-GEOPROBE-09 W/PID-3

Water Level Data				Sample ID	Well Diagram	Summary			
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft)	10.0
			Bottom of Casing	Bottom of Hole	Water			Rock Cored (ft)	-
							Samples	3G	
						<b>Boring No.</b>	<b>DP-074</b>		

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High Plasticity: N - Nonplastic L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 13 July 2015  
 Finish 13 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1	0.5 1.0	ND		ML/SP	Tan sandy SILT intermixed with poorly graded SAND, trace gravel, no odor, moist (reworked natural)
						-FILL-
5	G2	4.5 5.0	ND			
				7.0	SP	Tan poorly graded SAND, trace sandy silt, no odor, moist to wet
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth (ft) to:	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0
			Bottom of Casing			Rock Cored (ft) -
			Bottom of Hole			Samples 2G
			Water			<b>Boring No. DP-075</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 13 July 2015  
 Finish 13 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 30		ND		SM	Tan to brown silty SAND, trace gravel, no odor, moist, 10-20% poorly graded sand pockets  -FILL-
				2.0	SP	Tan to light brown poorly graded SAND, no odor, moist, 10-15% pockets of sandy silt
5	G2 46	4.5 5.0	ND			
				10.0		BOTTOM OF EXPLORATION 10.0 FT

Water Level Data				Sample ID	Well Diagram	Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0
			Bottom of Casing	Bottom of Hole	Water			Rock Cored (ft) -
							Samples 2G	
						<b>Boring No. DP-076</b>		

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ Jul 31, 15

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 13 July 2015  
 Finish 13 July 2015  
 Driller M. Robins/J. Mulford  
 H&A Rep. A. Fleming  
 Elevation  
 Datum NA  
 Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1		ND		SM/ML	Gray to tan silty SAND intermixed with sandy SILT, 40% concrete rubble  <p style="text-align: center;">-FILL-</p>
				3.5	SP/ML	Tan to light brown poorly graded SAND intermixed with sandy SILT, no odor, moist
5	G2	4.5 5.0	ND			
				10.0		BOTTOM OF EXPLORATION 10.0 FT
10		9.5 10.0				
15						

Water Level Data				Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0 Rock Cored (ft) - Samples 2G	<b>Boring No. DP-077</b>
			Bottom of Casing	Bottom of Hole	Water				

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**



# GEOPROBE REPORT

**Boring No. DP-078**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 13 July 2015  
 Finish 13 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 35		ND		ML/SP	Tan to light brown sandy SILT intermixed with poorly graded SAND, no odor, moist, trace concrete rubble
				1.1	SP/ML	-FILL- Tan to light brown poorly graded SAND intermixed with sandy SILT, no odor, moist, trace black staining at approximately 6.0 ft, no sheen
5	G2 37	4.5 5.0	ND			
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT
15						

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ Jul 31, 15

Water Level Data				Sample ID	Well Diagram	Summary			
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft)	10.0
			Bottom of Casing	Bottom of Hole	Water			Rock Cored (ft)	-
							Samples	2G	
							<b>Boring No. DP-078</b>		

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**



Project Buzzard Point, Washington, DC, Square 0665 Lot 0024  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 14 July 2015  
 Finish 14 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 48	0.5	ND		SM/GP	Light gray to tan silty SAND intermixed with poorly graded gravel, no odor, moist
		1.0			1.5	SP
						-FILL-
5		4.5				BOTTOM OF EXPLORATION 5.0 FT
		5.0				
10						
15						

Water Level Data				Sample ID	Well Diagram	Summary			
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft)	5.0
			Bottom of Casing	Bottom of Hole	Water			Rock Cored (ft)	-
							Samples	2G	
							<b>Boring No.</b>	<b>DP-079</b>	

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0665 Lot 0024  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 14 July 2015  
 Finish 14 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 39	0.5 1.0	ND		SM	Tan silty SAND, no odor, moist, 50% poorly graded gravel in top 4 in., trace faint black staining at 4.2 ft, trace glass in top 12 in.
						-FILL-
5		4.5 5.0		5.0		BOTTOM OF EXPLORATION 5.0 FT
10						
15						

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-080</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0665 Lot 0024  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 14 July 2015  
 Finish 14 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 56	0.5 1.0	ND		SM	Tan to gray brown silty SAND, trace gravel, no odor, moist, trace asphalt and brick
						-FILL-
5		4.5 5.0		5.0		BOTTOM OF EXPLORATION 5.0 FT
10						
15						

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-081</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0665 Lot 0024  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 14 July 2015  
 Finish 14 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 49	0.5 1.0	ND		SM	Gray to brown silty SAND, no odor, moist, top 10 in. 50% gravel, trace glass, trace asphalt with slight staining at approximately 3.9 ft
						-FILL-
5		4.5 5.0		5.0		BOTTOM OF EXPLORATION 5.0 FT
10						
15						

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-082</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0665 Lot 0024  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 14 July 2015  
 Finish 14 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 29	0.5 1.0	ND		SM	Brown to dark brown silty SAND, trace gravel, no odor, moist, trace black staining at 4.5 ft
						-FILL-
5		4.5 5.0		5.0		BOTTOM OF EXPLORATION 5.0 FT
10						
15						

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-083</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0665 Lot 0024  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 14 July 2015  
 Finish 14 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1		ND		SM	Brown to dark brown silty SAND, trace gravel, no odor, moist, trace faint black staining at 2.5 ft
	30	0.5 1.0				
				3.0		-FILL- BOTTOM OF EXPLORATION 3.0 FT
5						Note: Refusal at 3.0 ft, trace concrete in sampler tip.
10						
15						

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-084</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123 JUL 2015.GPJ Jul 31, 15

Project Buzzard Point, Washington, DC, Square 0665 Lot 0024  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 15 July 2015  
 Finish 15 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 31	0.5 1.0	ND		SP	Yellow-brown to dark brown poorly graded SAND, no odor, moist, upper 18 in. 5-10% gravel
						-FILL-
5		4.5 5.0		5.0		BOTTOM OF EXPLORATION 5.0 FT
10						
15						

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-085</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15



# GEOPROBE REPORT

**Boring No. DP-086**

Project Buzzard Point, Washington, DC, Square 0665 Lot 0024  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 15 July 2015  
 Finish 15 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 23	0.5 1.0	ND		SM	Olive-brown to dark brown silty SAND, trace gravel, no odor, moist, trace black staining at 4.0 ft, with trace asphalt at center of staining
						-FILL-
5		4.5 5.0		5.0		BOTTOM OF EXPLORATION 5.0 FT
10						
15						

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-086</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15





# GEOPROBE REPORT

**Boring No. DP-087**

Project Buzzard Point, Washington, DC, Square 0665 Lot 0024  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 15 July 2015  
 Finish 15 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 22	0.5 1.0	ND		SM	Dark brown to gray silty SAND, no odor, moist, top 12 in. 35-40% gravel, trace brick
						-FILL-
5		4.5 5.0		5.0		BOTTOM OF EXPLORATION 5.0 FT
10						
15						

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-087</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15



# GEOPROBE REPORT

**Boring No. DP-088**

Project Buzzard Point, Washington, DC, Square 0665 Lot 0024  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 15 July 2015  
 Finish 15 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 38	0.5 1.0	ND		SP	Gray, tan to yellow-brown poorly graded SAND with gravel, no odor, moist, trace concrete and asphalt
						-FILL-
5		4.5 5.0		5.0		BOTTOM OF EXPLORATION 5.0 FT
10						
15						

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-088</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15

Project Buzzard Point, Washington, DC, Square 0665 Lot 0024  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 15 July 2015  
 Finish 15 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 39	0.5 1.0	ND		SM	Tan to dark brown silty SAND with gravel, no odor, moist, 10-15% pockets of poorly graded sand with gravel, trace brick and asphalt, trace staining around asphalt at 3.2 and 3.9 ft
						-FILL-
5		4.5 5.0		5.0		BOTTOM OF EXPLORATION 5.0 FT
10						
15						

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-089</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 15 July 2015  
 Finish 15 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming  
 Elevation  
 Datum NA  
 Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 55	0.5	ND		SM	Light brown silty SAND intermixed with silty sand, trace gravel, no odor, moist
		1.0				
5	G2 58	4.5	ND			
		5.0				
10		9.5		10.0		BOTTOM OF EXPLORATION 10.0 FT
		10.0				
15						

L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ Jul 31, 15 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT H&A-GEOPROBE-09 W/PID-3

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:		O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0
			Bottom of Casing	Bottom of Hole			Water
							Samples 2G
						<b>Boring No. DP-090</b>	

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 15 July 2015  
 Finish 15 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
------------	-------------------------	-------------------	--------------------	--------------------------------	-------------	---

0	G1 59	0.5 1.0	ND		SM/ML	Light brown silty SAND intermixed with sandy SILT, trace poorly graded sand, no odor, moist
5	G2 60	4.5 5.0	ND			
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT
15						

Water Level Data				Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0 Rock Cored (ft) - Samples 2G	<b>Boring No. DP-091</b>
			Bottom of Casing	Bottom of Hole	Water				

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ Jul 31, 15

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 15 July 2015  
 Finish 15 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 60	0.5 1.0	ND		SM/ML	Light brown silty SAND intermixed with sandy SILT, trace poorly graded sand, strong petroleum-like odor below 2.5 ft, moist, no staining or sheen
5	G2 60	4.5 5.0	ND			
10		9.5 10.0		10.0		
BOTTOM OF EXPLORATION 10.0 FT						

L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ Jul 31, 15 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT H&A-GEOPROBE-09 W/PID-3

Water Level Data				Sample ID	Well Diagram	Summary			
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft)	10.0
			Bottom of Casing	Bottom of Hole	Water			Rock Cored (ft)	-
							Samples	2G	
							<b>Boring No. DP-092</b>		

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**



# GEOPROBE REPORT

**Boring No. DP-093**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 15 July 2015  
 Finish 15 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
0	G1 55	0.5 1.0	ND		SM/ML	Light brown silty SAND intermixed with sandy SILT, no odor, moist, trace pockets of poorly graded sand
5	G2 53	4.5 5.0	ND			
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT
15						

Water Level Data				Sample ID	Well Diagram	Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe	
			Bottom of Casing	Bottom of Hole	Water		
							<b>Boring No. DP-093</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None      Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High      Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123 JUL 2015.GPJ Jul 31, 15



# GEOPROBE REPORT

**Boring No. DP-094**

Project Buzzard Point, Washington, DC, Square 0661 Lot 0804  
 Client McKissack & McKissack  
 Contractor Vironex

File No. 40223-002  
 Sheet No. 1 of 1  
 Start 15 July 2015  
 Finish 15 July 2015  
 Driller M.Robins/J.Mulford  
 H&A Rep. A. Fleming

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type			NA	Rig Make & Model:
Inside Diameter (in.)			NA	Bit Type: Cutting Head
Hammer Weight (lb)	NA	NA	-	Drill Mud: None
Hammer Fall (in.)	NA	NA	-	Casing:
				Hoist/Hammer:
				PID Make & Model: MiniRAE 2000
				Elevation
				Datum NA
				Location See Plan

Depth (ft)	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>
------------	-------------------------	-------------------	--------------------	--------------------------------	-------------	---

0	G1 41	0.5 1.0	ND		SM/SP	Light brown to tan silty SAND intermixed with poorly graded SAND, trace gravel, no odor, moist
5	G2 51	4.5 5.0	ND			-FILL-
10		9.5 10.0		10.0		BOTTOM OF EXPLORATION 10.0 FT
15						

Water Level Data				Sample ID	Well Diagram	Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Splitspoon Sample G - Geoprobe		Overburden (ft) 10.0 Rock Cored (ft) - Samples 2G
			Bottom of Casing	Bottom of Hole	Water			
								<b>Boring No. DP-094</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High  
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**\*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**  
**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

H&A-GEOPROBE-09 W/PID-3 HA-LIB09.GLB HA-TB-CORE+WELL-07-1.GDT L:\WASHINGTON DC\40223-002\40223-002\_TB\_DP-003\_DP-123\_JUL\_2015.GPJ 29 Jul 15



## **APPENDIX B**

### **Laboratory Analytical Reports**



## ANALYTICAL REPORT

Lab Number:	L1515969
Client:	Haley & Aldrich, Inc. 5333 Mission Center Rd San Diego, CA 92108
ATTN:	Dana Kennard
Phone:	(619) 285-7108
Project Name:	BUZZARD POINT
Project Number:	40223-002
Report Date:	07/20/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1515969-01	TB-071015	WATER	Not Specified	07/10/15 08:00	07/10/15
L1515969-02	EB01-071015	WATER	Not Specified	07/10/15 15:05	07/10/15
L1515969-03	EB02-071015	WATER	Not Specified	07/10/15 15:00	07/10/15
L1515969-04	DP-050-SO-050-01	SOIL	Not Specified	07/10/15 08:15	07/10/15
L1515969-05	DP-050-SO-100-01	SOIL	Not Specified	07/10/15 08:25	07/10/15
L1515969-06	DP-051-SO-050-01	SOIL	Not Specified	07/10/15 08:35	07/10/15
L1515969-07	DP-051-SO-100-01	SOIL	Not Specified	07/10/15 08:44	07/10/15
L1515969-08	DP-051-SO-100-02	SOIL	Not Specified	07/10/15 08:44	07/10/15
L1515969-09	DP-048-SO-050-01	SOIL	Not Specified	07/10/15 09:00	07/10/15
L1515969-10	DP-048-SO-100-01	SOIL	Not Specified	07/10/15 09:10	07/10/15
L1515969-11	DP-049-SO-050-01	SOIL	Not Specified	07/10/15 09:17	07/10/15
L1515969-12	DP-049-SO-100-01	SOIL	Not Specified	07/10/15 09:20	07/10/15
L1515969-13	DP-052-SO-050-01	SOIL	Not Specified	07/10/15 09:40	07/10/15
L1515969-14	DP-052-SO-100-01	SOIL	Not Specified	07/10/15 09:45	07/10/15
L1515969-15	DP-047-SO-010-01	SOIL	Not Specified	07/10/15 08:50	07/10/15
L1515969-16	DP-047-SO-010-02	SOIL	Not Specified	07/10/15 08:50	07/10/15
L1515969-17	DP-047-SO-050-01	SOIL	Not Specified	07/10/15 08:55	07/10/15
L1515969-18	DP-047-SO-100-01	SOIL	Not Specified	07/10/15 09:00	07/10/15
L1515969-19	DP-053-SO-010-01	SOIL	Not Specified	07/10/15 10:05	07/10/15
L1515969-20	DP-053-SO-050-01	SOIL	Not Specified	07/10/15 10:10	07/10/15
L1515969-21	DP-053-SO-100-01	SOIL	Not Specified	07/10/15 10:15	07/10/15
L1515969-22	DP-054-SO-010-01	SOIL	Not Specified	07/10/15 10:20	07/10/15
L1515969-23	DP-054-SO-050-01	SOIL	Not Specified	07/10/15 10:25	07/10/15
L1515969-24	DP-054-SO-100-01	SOIL	Not Specified	07/10/15 10:30	07/10/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1515969-25	DP-054-SO-100-02	SOIL	Not Specified	07/10/15 10:30	07/10/15
L1515969-26	DP-055-SO-010-01	SOIL	Not Specified	07/10/15 10:35	07/10/15
L1515969-27	DP-055-SO-050-01	SOIL	Not Specified	07/10/15 10:40	07/10/15
L1515969-28	DP-055-SO-100-01	SOIL	Not Specified	07/10/15 10:45	07/10/15
L1515969-29	DP-056-SO-010-01	SOIL	Not Specified	07/10/15 12:10	07/10/15
L1515969-30	DP-056-SO-050-01	SOIL	Not Specified	07/10/15 12:13	07/10/15
L1515969-31	DP-056-SO-100-01	SOIL	Not Specified	07/10/15 12:15	07/10/15
L1515969-32	DP-057-SO-010-01	SOIL	Not Specified	07/10/15 12:20	07/10/15
L1515969-33	DP-057-SO-050-01	SOIL	Not Specified	07/10/15 12:22	07/10/15
L1515969-34	DP-057-SO-100-01	SOIL	Not Specified	07/10/15 12:25	07/10/15
L1515969-35	DP-057-SO-100-02	SOIL	Not Specified	07/10/15 12:25	07/10/15
L1515969-36	DP-058-SO-010-01	SOIL	Not Specified	07/10/15 12:55	07/10/15
L1515969-37	DP-058-SO-050-01	SOIL	Not Specified	07/10/15 13:00	07/10/15
L1515969-38	DP-058-SO-100-01	SOIL	Not Specified	07/10/15 13:05	07/10/15
L1515969-39	DP-059-SO-010-01	SOIL	Not Specified	07/10/15 13:20	07/10/15
L1515969-40	DP-059-SO-010-02	SOIL	Not Specified	07/10/15 13:20	07/10/15
L1515969-41	DP-059-SO-050-01	SOIL	Not Specified	07/10/15 13:25	07/10/15
L1515969-42	DP-059-SO-100-01	SOIL	Not Specified	07/10/15 13:30	07/10/15
L1515969-43	DP-060-SO-010-01	SOIL	Not Specified	07/10/15 13:35	07/10/15
L1515969-44	DP-060-SO-050-01	SOIL	Not Specified	07/10/15 13:40	07/10/15
L1515969-45	DP-060-SO-100-01	SOIL	Not Specified	07/10/15 13:45	07/10/15
L1515969-46	DP-061-SO-010-01	SOIL	Not Specified	07/10/15 14:05	07/10/15
L1515969-47	DP-061-SO-050-01	SOIL	Not Specified	07/10/15 14:10	07/10/15
L1515969-48	DP-061-SO-050-02	SOIL	Not Specified	07/10/15 14:10	07/10/15
L1515969-49	DP-061-SO-100-01	SOIL	Not Specified	07/10/15 14:15	07/10/15
L1515969-50	DP-062-SO-010-01	SOIL	Not Specified	07/10/15 14:25	07/10/15
L1515969-51	DP-062-SO-050-01	SOIL	Not Specified	07/10/15 14:30	07/10/15
L1515969-52	DP-062-SO-100-01	SOIL	Not Specified	07/10/15 14:35	07/10/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1515969-53	DP-063-SO-010-01	SOIL	Not Specified	07/10/15 14:45	07/10/15
L1515969-54	DP-063-SO-050-01	SOIL	Not Specified	07/10/15 14:47	07/10/15
L1515969-55	DP-063-SO-100-01	SOIL	Not Specified	07/10/15 14:50	07/10/15
L1515969-56	DP-064-SO-010-01	SOIL	Not Specified	07/10/15 14:52	07/10/15
L1515969-57	DP-064-SO-050-01	SOIL	Not Specified	07/10/15 14:55	07/10/15
L1515969-58	DP-064-SO-100-01	SOIL	Not Specified	07/10/15 14:58	07/10/15
L1515969-59	DP-064-SO-100-02	SOIL	Not Specified	07/10/15 14:58	07/10/15

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

---

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

### Case Narrative (continued)

#### Report Submission

This final report replaces the partial report issued July 17, 2015, and includes the results of all requested analyses.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Semivolatile Organics

L1515969-22: The sample has elevated detection limits due to the dilution required by the sample matrix.

#### Petroleum Hydrocarbon Quantitation

The WG801865-3 Laboratory Duplicate RPD, performed on L1515969-04, is outside the acceptance criteria for total petroleum hydrocarbons (c9-c44) (65%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

#### Gasoline Range Organics

L1515969-02, -03: A laboratory duplicate and matrix spike could not be performed due to the matrix submitted for analysis.

#### Metals

L1515969-15 through -28 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.

The WG802007-4 MS recoveries, performed on L1515969-03, are outside the acceptance criteria for arsenic (128%), cadmium (128%) and selenium (130%). A post digestion spike was performed and was within acceptance criteria.

The WG803151-4 MS recovery, performed on L1515969-15, is outside the acceptance criteria for mercury (138%). A post digestion spike was performed and was within acceptance criteria.

The WG803151-3 Laboratory Duplicate RPD, performed on L1515969-15, is outside the acceptance criteria

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

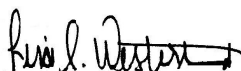
**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Case Narrative (continued)**

for mercury (129%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Lisa Westerlind

Title: Technical Director/Representative

Date: 07/20/15



# ORGANICS

# VOLATILES

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1515969-01  
**Client ID:** TB-071015  
**Sample Location:** Not Specified  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/12/15 14:12  
**Analyst:** PD

**Date Collected:** 07/10/15 08:00  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.18	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.29	1
Acetone	2.8	J	ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.16	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.14	1
Chloroform	ND		ug/l	0.75	0.16	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	0.26	J	ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
1,4-Dioxane	ND		ug/l	250	41.	1

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1515969-01  
**Client ID:** TB-071015  
**Sample Location:** Not Specified

**Date Collected:** 07/10/15 08:00  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.16	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.33	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.33	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	110		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-02  
 Client ID: EB01-071015  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/12/15 14:40  
 Analyst: PD

Date Collected: 07/10/15 15:05  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.18	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.29	1
Acetone	5.3		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.16	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.14	1
Chloroform	ND		ug/l	0.75	0.16	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
1,4-Dioxane	ND		ug/l	250	41.	1

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1515969-02  
**Client ID:** EB01-071015  
**Sample Location:** Not Specified

**Date Collected:** 07/10/15 15:05  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by GC/MS - Westborough Lab

cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.16	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.33	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.33	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	110		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1515969-03  
**Client ID:** EB02-071015  
**Sample Location:** Not Specified  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/12/15 15:08  
**Analyst:** PD

**Date Collected:** 07/10/15 15:00  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.18	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.29	1
Acetone	5.2		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.16	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.14	1
Chloroform	ND		ug/l	0.75	0.16	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
1,4-Dioxane	ND		ug/l	250	41.	1

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1515969-03  
**Client ID:** EB02-071015  
**Sample Location:** Not Specified

**Date Collected:** 07/10/15 15:00  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.16	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.33	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.33	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	113		70-130



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/12/15 12:49  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG801952-3					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.18
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.14
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.29
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.16
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene (total)	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.14
Chloroform	ND		ug/l	0.75	0.16
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Bromodichloromethane	ND		ug/l	0.50	0.19

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8260C  
**Analytical Date:** 07/12/15 12:49  
**Analyst:** PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG801952-3					
1,4-Dioxane	ND		ug/l	250	41.
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.16
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.33
Xylene (Total)	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.17
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.33
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	0.35	J	ug/l	2.5	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/12/15 12:49  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG801952-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	108		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG801952-1 WG801952-2								
Dichlorodifluoromethane	108		111		36-147	3		20
Chloromethane	94		94		64-130	0		20
Vinyl chloride	96		99		55-140	3		20
Bromomethane	82		82		39-139	0		20
Chloroethane	86		88		55-138	2		20
Trichlorofluoromethane	87		92		62-150	6		20
1,1-Dichloroethene	100		105		61-145	5		20
Carbon disulfide	114		110		51-130	4		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	99		104		70-130	5		20
Methylene chloride	106		106		70-130	0		20
Acetone	123		102		58-148	19		20
trans-1,2-Dichloroethene	98		101		70-130	3		20
Methyl Acetate	104		101		70-130	3		20
Methyl tert butyl ether	97		99		63-130	2		20
1,1-Dichloroethane	101		104		70-130	3		20
cis-1,2-Dichloroethene	99		100		70-130	1		20
Cyclohexane	98		99		70-130	1		20
Bromochloromethane	107		108		70-130	1		20
Chloroform	100		102		70-130	2		20
Carbon tetrachloride	97		101		63-132	4		20
1,1,1-Trichloroethane	95		98		67-130	3		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG801952-1 WG801952-2								
2-Butanone	101		95		63-138	6		20
Benzene	101		99		70-130	2		20
1,2-Dichloroethane	93		94		70-130	1		20
Methyl cyclohexane	102		99		70-130	3		20
Trichloroethene	98		100		70-130	2		20
1,2-Dichloropropane	98		98		70-130	0		20
Bromodichloromethane	97		98		67-130	1		20
1,4-Dioxane	117		104		56-162	12		20
cis-1,3-Dichloropropene	97		98		70-130	1		20
Toluene	107		100		70-130	7		20
Tetrachloroethene	98		99		70-130	1		20
4-Methyl-2-pentanone	83		80		59-130	4		20
trans-1,3-Dichloropropene	94		100		70-130	6		20
1,1,2-Trichloroethane	104		102		70-130	2		20
Dibromochloromethane	100		106		63-130	6		20
1,2-Dibromoethane	97		102		70-130	5		20
2-Hexanone	84		82		57-130	2		20
Chlorobenzene	98		99		75-130	1		20
Ethylbenzene	95		97		70-130	2		20
p/m-Xylene	98		99		70-130	1		20
o-Xylene	96		98		70-130	2		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG801952-1 WG801952-2								
Styrene	94		96		70-130	2		20
Bromoform	90		94		54-136	4		20
Isopropylbenzene	95		94		70-130	1		20
1,1,2,2-Tetrachloroethane	92		98		67-130	6		20
1,3,5-Trimethylbenzene	97		95		64-130	2		20
1,2,4-Trimethylbenzene	97		94		70-130	3		20
1,3-Dichlorobenzene	95		96		70-130	1		20
1,4-Dichlorobenzene	92		96		70-130	4		20
1,2-Dichlorobenzene	92		95		70-130	3		20
1,2-Dibromo-3-chloropropane	82		88		41-144	7		20
1,2,4-Trichlorobenzene	74		85		70-130	14		20
Naphthalene	68	Q	86		70-130	23	Q	20
1,2,3-Trichlorobenzene	71		88		70-130	21	Q	20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		97		70-130
Toluene-d8	103		105		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	105		105		70-130

# SEMIVOLATILES

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-02  
 Client ID: EB01-071015  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 02:08  
 Analyst: PS

Date Collected: 07/10/15 15:05  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 07/12/15 03:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		ug/l	2.0	0.33	1
2-Methylnaphthalene	ND		ug/l	2.0	0.36	1
2-Chloronaphthalene	ND		ug/l	2.0	0.46	1
Acenaphthylene	ND		ug/l	2.0	0.37	1
Acenaphthene	ND		ug/l	2.0	0.28	1
Fluorene	ND		ug/l	2.0	0.32	1
Phenanthrene	ND		ug/l	2.0	0.23	1
Anthracene	ND		ug/l	2.0	0.20	1
Fluoranthene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.52	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Chrysene	ND		ug/l	2.0	0.30	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.37	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.30	1
Benzo(a)pyrene	ND		ug/l	2.0	0.66	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.43	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.44	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.57	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	83		15-120
4-Terphenyl-d14	89		41-149



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-03  
 Client ID: EB02-071015  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 02:34  
 Analyst: PS

Date Collected: 07/10/15 15:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 07/12/15 03:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		ug/l	2.0	0.33	1
2-Methylnaphthalene	ND		ug/l	2.0	0.36	1
2-Chloronaphthalene	ND		ug/l	2.0	0.46	1
Acenaphthylene	ND		ug/l	2.0	0.37	1
Acenaphthene	ND		ug/l	2.0	0.28	1
Fluorene	ND		ug/l	2.0	0.32	1
Phenanthrene	ND		ug/l	2.0	0.23	1
Anthracene	ND		ug/l	2.0	0.20	1
Fluoranthene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.52	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Chrysene	ND		ug/l	2.0	0.30	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.37	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.30	1
Benzo(a)pyrene	ND		ug/l	2.0	0.66	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.43	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.44	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.57	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	84		15-120
4-Terphenyl-d14	94		41-149

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-15  
 Client ID: DP-047-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 23:43  
 Analyst: AS  
 Percent Solids: 87%

Date Collected: 07/10/15 08:50  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.063	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.061	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.062	1
Acenaphthylene	0.059	J	mg/kg	0.15	0.036	1
Acenaphthene	0.14	J	mg/kg	0.15	0.039	1
Fluorene	0.12	J	mg/kg	0.19	0.055	1
Phenanthrene	1.5		mg/kg	0.11	0.037	1
Anthracene	0.37		mg/kg	0.11	0.032	1
Fluoranthene	2.8		mg/kg	0.11	0.035	1
Pyrene	2.6		mg/kg	0.11	0.037	1
Benzo(a)anthracene	1.4		mg/kg	0.11	0.037	1
Chrysene	1.5		mg/kg	0.11	0.038	1
Benzo(b)fluoranthene	1.7		mg/kg	0.11	0.038	1
Benzo(k)fluoranthene	0.68		mg/kg	0.11	0.036	1
Benzo(a)pyrene	1.2		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	0.80		mg/kg	0.15	0.042	1
Dibenzo(a,h)anthracene	0.17		mg/kg	0.11	0.037	1
Benzo(ghi)perylene	0.71		mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	70		30-120
4-Terphenyl-d14	47		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-16  
 Client ID: DP-047-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 00:11  
 Analyst: AS  
 Percent Solids: 85%

Date Collected: 07/10/15 08:50  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	0.040	J	mg/kg	0.16	0.036	1
Acenaphthene	0.12	J	mg/kg	0.16	0.040	1
Fluorene	0.097	J	mg/kg	0.19	0.056	1
Phenanthrene	1.1		mg/kg	0.12	0.038	1
Anthracene	0.26		mg/kg	0.12	0.032	1
Fluoranthene	1.7		mg/kg	0.12	0.036	1
Pyrene	1.5		mg/kg	0.12	0.038	1
Benzo(a)anthracene	0.85		mg/kg	0.12	0.038	1
Chrysene	0.92		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	1.1		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	0.37		mg/kg	0.12	0.037	1
Benzo(a)pyrene	0.80		mg/kg	0.16	0.047	1
Indeno(1,2,3-cd)pyrene	0.52		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	0.14		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	0.46		mg/kg	0.16	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	47		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-17  
 Client ID: DP-047-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 00:38  
 Analyst: AS  
 Percent Solids: 85%

Date Collected: 07/10/15 08:55  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.19	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.047	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	60		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-18  
 Client ID: DP-047-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 01:06  
 Analyst: AS  
 Percent Solids: 85%

Date Collected: 07/10/15 09:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.19	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	0.038	J	mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	62		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-19  
 Client ID: DP-053-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 01:34  
 Analyst: AS  
 Percent Solids: 92%

Date Collected: 07/10/15 10:05  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.059	1
2-Methylnaphthalene	ND		mg/kg	0.21	0.056	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.058	1
Acenaphthylene	0.035	J	mg/kg	0.14	0.033	1
Acenaphthene	ND		mg/kg	0.14	0.036	1
Fluorene	ND		mg/kg	0.18	0.051	1
Phenanthrene	0.23		mg/kg	0.11	0.034	1
Anthracene	0.076	J	mg/kg	0.11	0.029	1
Fluoranthene	0.67		mg/kg	0.11	0.032	1
Pyrene	0.53		mg/kg	0.11	0.034	1
Benzo(a)anthracene	0.31		mg/kg	0.11	0.035	1
Chrysene	0.32		mg/kg	0.11	0.035	1
Benzo(b)fluoranthene	0.39		mg/kg	0.11	0.036	1
Benzo(k)fluoranthene	0.15		mg/kg	0.11	0.034	1
Benzo(a)pyrene	0.24		mg/kg	0.14	0.043	1
Indeno(1,2,3-cd)pyrene	0.20		mg/kg	0.14	0.039	1
Dibenzo(a,h)anthracene	0.040	J	mg/kg	0.11	0.034	1
Benzo(ghi)perylene	0.19		mg/kg	0.14	0.037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	66		30-120
4-Terphenyl-d14	51		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-20  
 Client ID: DP-053-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 02:01  
 Analyst: AS  
 Percent Solids: 95%

Date Collected: 07/10/15 10:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.17	0.057	1
2-Methylnaphthalene	ND		mg/kg	0.20	0.054	1
2-Chloronaphthalene	ND		mg/kg	0.17	0.056	1
Acenaphthylene	ND		mg/kg	0.14	0.032	1
Acenaphthene	ND		mg/kg	0.14	0.035	1
Fluorene	ND		mg/kg	0.17	0.049	1
Phenanthrene	ND		mg/kg	0.10	0.033	1
Anthracene	ND		mg/kg	0.10	0.028	1
Fluoranthene	ND		mg/kg	0.10	0.031	1
Pyrene	ND		mg/kg	0.10	0.033	1
Benzo(a)anthracene	ND		mg/kg	0.10	0.033	1
Chrysene	ND		mg/kg	0.10	0.034	1
Benzo(b)fluoranthene	ND		mg/kg	0.10	0.034	1
Benzo(k)fluoranthene	ND		mg/kg	0.10	0.032	1
Benzo(a)pyrene	ND		mg/kg	0.14	0.042	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.14	0.038	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.10	0.033	1
Benzo(ghi)perylene	ND		mg/kg	0.14	0.035	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	85		30-120
4-Terphenyl-d14	72		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-21  
 Client ID: DP-053-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 02:29  
 Analyst: AS  
 Percent Solids: 90%

Date Collected: 07/10/15 10:15  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.060	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.058	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.059	1
Acenaphthylene	ND		mg/kg	0.14	0.034	1
Acenaphthene	ND		mg/kg	0.14	0.037	1
Fluorene	ND		mg/kg	0.18	0.052	1
Phenanthrene	ND		mg/kg	0.11	0.035	1
Anthracene	ND		mg/kg	0.11	0.030	1
Fluoranthene	ND		mg/kg	0.11	0.033	1
Pyrene	ND		mg/kg	0.11	0.035	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.035	1
Chrysene	ND		mg/kg	0.11	0.035	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.036	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.034	1
Benzo(a)pyrene	ND		mg/kg	0.14	0.044	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.14	0.040	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.035	1
Benzo(ghi)perylene	ND		mg/kg	0.14	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	70		30-120
4-Terphenyl-d14	63		18-120



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-22 D  
 Client ID: DP-054-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 02:57  
 Analyst: AS  
 Percent Solids: 89%

Date Collected: 07/10/15 10:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.37	0.12	2
2-Methylnaphthalene	ND		mg/kg	0.44	0.12	2
2-Chloronaphthalene	ND		mg/kg	0.37	0.12	2
Acenaphthylene	0.13	J	mg/kg	0.30	0.069	2
Acenaphthene	0.085	J	mg/kg	0.30	0.076	2
Fluorene	ND		mg/kg	0.37	0.11	2
Phenanthrene	0.92		mg/kg	0.22	0.073	2
Anthracene	0.23		mg/kg	0.22	0.062	2
Fluoranthene	1.2		mg/kg	0.22	0.068	2
Pyrene	0.99		mg/kg	0.22	0.072	2
Benzo(a)anthracene	0.59		mg/kg	0.22	0.073	2
Chrysene	0.62		mg/kg	0.22	0.073	2
Benzo(b)fluoranthene	0.71		mg/kg	0.22	0.075	2
Benzo(k)fluoranthene	0.27		mg/kg	0.22	0.071	2
Benzo(a)pyrene	0.53		mg/kg	0.30	0.091	2
Indeno(1,2,3-cd)pyrene	0.38		mg/kg	0.30	0.082	2
Dibenzo(a,h)anthracene	0.082	J	mg/kg	0.22	0.072	2
Benzo(ghi)perylene	0.36		mg/kg	0.30	0.077	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	61		30-120
4-Terphenyl-d14	52		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-23  
 Client ID: DP-054-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 03:24  
 Analyst: AS  
 Percent Solids: 91%

Date Collected: 07/10/15 10:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.059	1
2-Methylnaphthalene	ND		mg/kg	0.21	0.057	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.058	1
Acenaphthylene	ND		mg/kg	0.14	0.033	1
Acenaphthene	ND		mg/kg	0.14	0.036	1
Fluorene	ND		mg/kg	0.18	0.051	1
Phenanthrene	ND		mg/kg	0.11	0.035	1
Anthracene	ND		mg/kg	0.11	0.030	1
Fluoranthene	0.058	J	mg/kg	0.11	0.032	1
Pyrene	0.062	J	mg/kg	0.11	0.034	1
Benzo(a)anthracene	0.043	J	mg/kg	0.11	0.035	1
Chrysene	0.047	J	mg/kg	0.11	0.035	1
Benzo(b)fluoranthene	0.052	J	mg/kg	0.11	0.036	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.034	1
Benzo(a)pyrene	ND		mg/kg	0.14	0.043	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.14	0.039	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.034	1
Benzo(ghi)perylene	ND		mg/kg	0.14	0.037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	58		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-24  
 Client ID: DP-054-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 03:52  
 Analyst: AS  
 Percent Solids: 85%

Date Collected: 07/10/15 10:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	ND		mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.040	1
Fluorene	ND		mg/kg	0.19	0.055	1
Phenanthrene	0.20		mg/kg	0.12	0.038	1
Anthracene	0.048	J	mg/kg	0.12	0.032	1
Fluoranthene	0.39		mg/kg	0.12	0.036	1
Pyrene	0.35		mg/kg	0.12	0.038	1
Benzo(a)anthracene	0.24		mg/kg	0.12	0.038	1
Chrysene	0.26		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	0.30		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	0.12		mg/kg	0.12	0.037	1
Benzo(a)pyrene	0.23		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	0.15		mg/kg	0.15	0.043	1
Dibenzo(a,h)anthracene	0.037	J	mg/kg	0.12	0.037	1
Benzo(ghi)perylene	0.13	J	mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	47		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-25  
 Client ID: DP-054-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 04:20  
 Analyst: AS  
 Percent Solids: 86%

Date Collected: 07/10/15 10:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	0.080	J	mg/kg	0.19	0.064	1
2-Methylnaphthalene	0.064	J	mg/kg	0.23	0.061	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.062	1
Acenaphthylene	ND		mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.039	1
Fluorene	ND		mg/kg	0.19	0.055	1
Phenanthrene	0.26		mg/kg	0.11	0.037	1
Anthracene	0.065	J	mg/kg	0.11	0.032	1
Fluoranthene	0.39		mg/kg	0.11	0.035	1
Pyrene	0.34		mg/kg	0.11	0.037	1
Benzo(a)anthracene	0.24		mg/kg	0.11	0.037	1
Chrysene	0.24		mg/kg	0.11	0.038	1
Benzo(b)fluoranthene	0.30		mg/kg	0.11	0.039	1
Benzo(k)fluoranthene	0.11		mg/kg	0.11	0.036	1
Benzo(a)pyrene	0.23		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	0.15		mg/kg	0.15	0.042	1
Dibenzo(a,h)anthracene	0.037	J	mg/kg	0.11	0.037	1
Benzo(ghi)perylene	0.14	J	mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	69		30-120
4-Terphenyl-d14	52		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-26  
 Client ID: DP-055-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 04:47  
 Analyst: AS  
 Percent Solids: 85%

Date Collected: 07/10/15 10:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.19	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	59		30-120
4-Terphenyl-d14	44		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-27  
 Client ID: DP-055-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 05:15  
 Analyst: AS  
 Percent Solids: 89%

Date Collected: 07/10/15 10:40  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.061	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.058	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.060	1
Acenaphthylene	ND		mg/kg	0.15	0.034	1
Acenaphthene	ND		mg/kg	0.15	0.038	1
Fluorene	ND		mg/kg	0.18	0.052	1
Phenanthrene	ND		mg/kg	0.11	0.036	1
Anthracene	ND		mg/kg	0.11	0.030	1
Fluoranthene	0.054	J	mg/kg	0.11	0.034	1
Pyrene	0.050	J	mg/kg	0.11	0.036	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.036	1
Chrysene	ND		mg/kg	0.11	0.036	1
Benzo(b)fluoranthene	0.039	J	mg/kg	0.11	0.037	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.035	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.045	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.041	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.035	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	73		30-120
4-Terphenyl-d14	51		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-28  
 Client ID: DP-055-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 05:43  
 Analyst: AS  
 Percent Solids: 83%

Date Collected: 07/10/15 10:45  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.066	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.064	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.065	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.041	1
Fluorene	ND		mg/kg	0.20	0.057	1
Phenanthrene	0.10	J	mg/kg	0.12	0.039	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	0.25		mg/kg	0.12	0.037	1
Pyrene	0.21		mg/kg	0.12	0.039	1
Benzo(a)anthracene	0.16		mg/kg	0.12	0.039	1
Chrysene	0.18		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	0.21		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	0.088	J	mg/kg	0.12	0.038	1
Benzo(a)pyrene	0.16		mg/kg	0.16	0.049	1
Indeno(1,2,3-cd)pyrene	0.11	J	mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.039	1
Benzo(ghi)perylene	0.086	J	mg/kg	0.16	0.042	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	61		30-120
4-Terphenyl-d14	42		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-29  
 Client ID: DP-056-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 06:12  
 Analyst: AS  
 Percent Solids: 84%

Date Collected: 07/10/15 12:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 18:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.066	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.063	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.041	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.039	1
Chrysene	ND		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	83		30-120
4-Terphenyl-d14	64		18-120



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-30  
 Client ID: DP-056-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 15:55  
 Analyst: JB  
 Percent Solids: 87%

Date Collected: 07/10/15 12:13  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.063	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.061	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.062	1
Acenaphthylene	ND		mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.039	1
Fluorene	ND		mg/kg	0.19	0.055	1
Phenanthrene	ND		mg/kg	0.11	0.037	1
Anthracene	ND		mg/kg	0.11	0.032	1
Fluoranthene	ND		mg/kg	0.11	0.035	1
Pyrene	ND		mg/kg	0.11	0.037	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.037	1
Chrysene	ND		mg/kg	0.11	0.037	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.038	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.036	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.042	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.037	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	87		30-120
4-Terphenyl-d14	72		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-31  
 Client ID: DP-056-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 16:22  
 Analyst: JB  
 Percent Solids: 86%

Date Collected: 07/10/15 12:15  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.063	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.061	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.062	1
Acenaphthylene	ND		mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.039	1
Fluorene	ND		mg/kg	0.19	0.055	1
Phenanthrene	0.11		mg/kg	0.11	0.037	1
Anthracene	0.047	J	mg/kg	0.11	0.032	1
Fluoranthene	0.78		mg/kg	0.11	0.035	1
Pyrene	0.61		mg/kg	0.11	0.037	1
Benzo(a)anthracene	0.33		mg/kg	0.11	0.037	1
Chrysene	0.32		mg/kg	0.11	0.038	1
Benzo(b)fluoranthene	0.28		mg/kg	0.11	0.039	1
Benzo(k)fluoranthene	0.11		mg/kg	0.11	0.036	1
Benzo(a)pyrene	0.18		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	0.088	J	mg/kg	0.15	0.042	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.037	1
Benzo(ghi)perylene	0.074	J	mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	86		30-120
4-Terphenyl-d14	73		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-32  
 Client ID: DP-057-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 16:49  
 Analyst: JB  
 Percent Solids: 83%

Date Collected: 07/10/15 12:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.066	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.064	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.065	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.041	1
Fluorene	ND		mg/kg	0.20	0.057	1
Phenanthrene	ND		mg/kg	0.12	0.039	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	0.16		mg/kg	0.12	0.037	1
Pyrene	0.12		mg/kg	0.12	0.039	1
Benzo(a)anthracene	0.046	J	mg/kg	0.12	0.039	1
Chrysene	ND		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.049	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.039	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.042	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	93		30-120
4-Terphenyl-d14	81		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-33  
 Client ID: DP-057-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 01:31  
 Analyst: JB  
 Percent Solids: 86%

Date Collected: 07/10/15 12:22  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.063	1
2-Methylnaphthalene	0.11	J	mg/kg	0.23	0.061	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.062	1
Acenaphthylene	ND		mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.039	1
Fluorene	ND		mg/kg	0.19	0.055	1
Phenanthrene	0.21		mg/kg	0.11	0.037	1
Anthracene	0.059	J	mg/kg	0.11	0.032	1
Fluoranthene	0.39		mg/kg	0.11	0.035	1
Pyrene	0.33		mg/kg	0.11	0.037	1
Benzo(a)anthracene	0.10	J	mg/kg	0.11	0.037	1
Chrysene	0.099	J	mg/kg	0.11	0.038	1
Benzo(b)fluoranthene	0.075	J	mg/kg	0.11	0.038	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.036	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.042	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.037	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	79		30-120
4-Terphenyl-d14	72		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-34  
 Client ID: DP-057-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 01:56  
 Analyst: JB  
 Percent Solids: 85%

Date Collected: 07/10/15 12:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.063	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	87		30-120
4-Terphenyl-d14	78		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-35  
 Client ID: DP-057-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 15:38  
 Analyst: JB  
 Percent Solids: 90%

Date Collected: 07/10/15 12:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.061	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.059	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.060	1
Acenaphthylene	ND		mg/kg	0.15	0.034	1
Acenaphthene	ND		mg/kg	0.15	0.038	1
Fluorene	ND		mg/kg	0.18	0.053	1
Phenanthrene	ND		mg/kg	0.11	0.036	1
Anthracene	ND		mg/kg	0.11	0.031	1
Fluoranthene	ND		mg/kg	0.11	0.034	1
Pyrene	ND		mg/kg	0.11	0.036	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.036	1
Chrysene	ND		mg/kg	0.11	0.036	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.037	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.035	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.045	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.041	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.036	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	69		30-120
4-Terphenyl-d14	80		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-36  
 Client ID: DP-058-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 16:06  
 Analyst: JB  
 Percent Solids: 86%

Date Collected: 07/10/15 12:55  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.063	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.060	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.062	1
Acenaphthylene	ND		mg/kg	0.15	0.035	1
Acenaphthene	ND		mg/kg	0.15	0.039	1
Fluorene	ND		mg/kg	0.19	0.054	1
Phenanthrene	0.084	J	mg/kg	0.11	0.037	1
Anthracene	ND		mg/kg	0.11	0.032	1
Fluoranthene	0.23		mg/kg	0.11	0.035	1
Pyrene	0.21		mg/kg	0.11	0.037	1
Benzo(a)anthracene	0.15		mg/kg	0.11	0.037	1
Chrysene	0.16		mg/kg	0.11	0.037	1
Benzo(b)fluoranthene	0.20		mg/kg	0.11	0.038	1
Benzo(k)fluoranthene	0.070	J	mg/kg	0.11	0.036	1
Benzo(a)pyrene	0.14	J	mg/kg	0.15	0.046	1
Indeno(1,2,3-cd)pyrene	0.099	J	mg/kg	0.15	0.042	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.037	1
Benzo(ghi)perylene	0.093	J	mg/kg	0.15	0.039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	81		30-120
4-Terphenyl-d14	76		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-37  
 Client ID: DP-058-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 16:34  
 Analyst: JB  
 Percent Solids: 88%

Date Collected: 07/10/15 13:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.061	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.058	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.060	1
Acenaphthylene	ND		mg/kg	0.15	0.034	1
Acenaphthene	ND		mg/kg	0.15	0.038	1
Fluorene	ND		mg/kg	0.18	0.052	1
Phenanthrene	ND		mg/kg	0.11	0.036	1
Anthracene	ND		mg/kg	0.11	0.030	1
Fluoranthene	ND		mg/kg	0.11	0.034	1
Pyrene	ND		mg/kg	0.11	0.036	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.036	1
Chrysene	ND		mg/kg	0.11	0.036	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.037	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.035	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.045	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.041	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.035	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	97		30-120
4-Terphenyl-d14	83		18-120



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-38  
 Client ID: DP-058-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 01:17  
 Analyst: JB  
 Percent Solids: 87%

Date Collected: 07/10/15 13:05  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.063	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.061	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.062	1
Acenaphthylene	ND		mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.039	1
Fluorene	ND		mg/kg	0.19	0.055	1
Phenanthrene	ND		mg/kg	0.11	0.037	1
Anthracene	ND		mg/kg	0.11	0.032	1
Fluoranthene	ND		mg/kg	0.11	0.035	1
Pyrene	ND		mg/kg	0.11	0.037	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.037	1
Chrysene	ND		mg/kg	0.11	0.037	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.038	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.036	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.042	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.037	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	65		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-39  
 Client ID: DP-059-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 01:44  
 Analyst: JB  
 Percent Solids: 89%

Date Collected: 07/10/15 13:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.062	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.059	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.060	1
Acenaphthylene	ND		mg/kg	0.15	0.035	1
Acenaphthene	ND		mg/kg	0.15	0.038	1
Fluorene	ND		mg/kg	0.18	0.053	1
Phenanthrene	ND		mg/kg	0.11	0.036	1
Anthracene	ND		mg/kg	0.11	0.031	1
Fluoranthene	0.051	J	mg/kg	0.11	0.034	1
Pyrene	0.044	J	mg/kg	0.11	0.036	1
Benzo(a)anthracene	0.044	J	mg/kg	0.11	0.036	1
Chrysene	0.045	J	mg/kg	0.11	0.036	1
Benzo(b)fluoranthene	0.066	J	mg/kg	0.11	0.037	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.035	1
Benzo(a)pyrene	0.046	J	mg/kg	0.15	0.045	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.041	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.036	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	75		30-120
4-Terphenyl-d14	65		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-40  
 Client ID: DP-059-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 02:11  
 Analyst: JB  
 Percent Solids: 89%

Date Collected: 07/10/15 13:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.060	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.058	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.059	1
Acenaphthylene	ND		mg/kg	0.14	0.034	1
Acenaphthene	ND		mg/kg	0.14	0.037	1
Fluorene	ND		mg/kg	0.18	0.052	1
Phenanthrene	ND		mg/kg	0.11	0.036	1
Anthracene	ND		mg/kg	0.11	0.030	1
Fluoranthene	0.066	J	mg/kg	0.11	0.033	1
Pyrene	0.061	J	mg/kg	0.11	0.035	1
Benzo(a)anthracene	0.052	J	mg/kg	0.11	0.036	1
Chrysene	0.050	J	mg/kg	0.11	0.036	1
Benzo(b)fluoranthene	0.066	J	mg/kg	0.11	0.037	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.035	1
Benzo(a)pyrene	0.052	J	mg/kg	0.14	0.044	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.14	0.040	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.035	1
Benzo(ghi)perylene	ND		mg/kg	0.14	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	82		30-120
4-Terphenyl-d14	63		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-41  
 Client ID: DP-059-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/16/15 02:37  
 Analyst: JB  
 Percent Solids: 85%

Date Collected: 07/10/15 13:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.061	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.062	1
Acenaphthylene	ND		mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.040	1
Fluorene	ND		mg/kg	0.19	0.055	1
Phenanthrene	0.35		mg/kg	0.12	0.038	1
Anthracene	0.080	J	mg/kg	0.12	0.032	1
Fluoranthene	0.48		mg/kg	0.12	0.035	1
Pyrene	0.40		mg/kg	0.12	0.037	1
Benzo(a)anthracene	0.29		mg/kg	0.12	0.038	1
Chrysene	0.29		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	0.30		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	0.16		mg/kg	0.12	0.037	1
Benzo(a)pyrene	0.25		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	0.16		mg/kg	0.15	0.042	1
Dibenzo(a,h)anthracene	0.042	J	mg/kg	0.12	0.037	1
Benzo(ghi)perylene	0.12	J	mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	46		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-42  
 Client ID: DP-059-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 14:15  
 Analyst: JB  
 Percent Solids: 85%

Date Collected: 07/10/15 13:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	ND		mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.040	1
Fluorene	ND		mg/kg	0.19	0.055	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.035	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.037	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	115		23-120
2-Fluorobiphenyl	90		30-120
4-Terphenyl-d14	99		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-43  
 Client ID: DP-060-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 14:41  
 Analyst: JB  
 Percent Solids: 84%

Date Collected: 07/10/15 13:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.066	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.063	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.041	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.039	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	0.048	J	mg/kg	0.12	0.036	1
Pyrene	0.056	J	mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.039	1
Chrysene	0.042	J	mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	108		23-120
2-Fluorobiphenyl	91		30-120
4-Terphenyl-d14	83		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-44  
 Client ID: DP-060-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 15:07  
 Analyst: JB  
 Percent Solids: 84%

Date Collected: 07/10/15 13:40  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	0.042	J	mg/kg	0.12	0.036	1
Pyrene	0.040	J	mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	115		23-120
2-Fluorobiphenyl	93		30-120
4-Terphenyl-d14	88		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-45  
 Client ID: DP-060-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 17:16  
 Analyst: JB  
 Percent Solids: 82%

Date Collected: 07/10/15 13:45  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.066	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.063	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.041	1
Fluorene	ND		mg/kg	0.20	0.057	1
Phenanthrene	ND		mg/kg	0.12	0.039	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.039	1
Chrysene	ND		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	87		30-120
4-Terphenyl-d14	97		18-120



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-46  
 Client ID: DP-061-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 19:31  
 Analyst: JB  
 Percent Solids: 88%

Date Collected: 07/10/15 14:05  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.063	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.060	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.062	1
Acenaphthylene	ND		mg/kg	0.15	0.035	1
Acenaphthene	ND		mg/kg	0.15	0.039	1
Fluorene	ND		mg/kg	0.19	0.054	1
Phenanthrene	0.074	J	mg/kg	0.11	0.037	1
Anthracene	ND		mg/kg	0.11	0.031	1
Fluoranthene	0.10	J	mg/kg	0.11	0.035	1
Pyrene	0.092	J	mg/kg	0.11	0.037	1
Benzo(a)anthracene	0.057	J	mg/kg	0.11	0.037	1
Chrysene	0.064	J	mg/kg	0.11	0.037	1
Benzo(b)fluoranthene	0.051	J	mg/kg	0.11	0.038	1
Benzo(k)fluoranthene	0.048	J	mg/kg	0.11	0.036	1
Benzo(a)pyrene	0.060	J	mg/kg	0.15	0.046	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.042	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.036	1
Benzo(ghi)perylene	0.039	J	mg/kg	0.15	0.039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	108		23-120
2-Fluorobiphenyl	87		30-120
4-Terphenyl-d14	76		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-47  
 Client ID: DP-061-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 19:55  
 Analyst: JB  
 Percent Solids: 82%

Date Collected: 07/10/15 14:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.067	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.064	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.066	1
Acenaphthylene	ND		mg/kg	0.16	0.038	1
Acenaphthene	0.086	J	mg/kg	0.16	0.041	1
Fluorene	0.10	J	mg/kg	0.20	0.058	1
Phenanthrene	0.66		mg/kg	0.12	0.039	1
Anthracene	0.24		mg/kg	0.12	0.034	1
Fluoranthene	0.70		mg/kg	0.12	0.037	1
Pyrene	0.58		mg/kg	0.12	0.039	1
Benzo(a)anthracene	0.40		mg/kg	0.12	0.039	1
Chrysene	0.36		mg/kg	0.12	0.040	1
Benzo(b)fluoranthene	0.22		mg/kg	0.12	0.041	1
Benzo(k)fluoranthene	0.26		mg/kg	0.12	0.038	1
Benzo(a)pyrene	0.28		mg/kg	0.16	0.049	1
Indeno(1,2,3-cd)pyrene	0.13	J	mg/kg	0.16	0.045	1
Dibenzo(a,h)anthracene	0.056	J	mg/kg	0.12	0.039	1
Benzo(ghi)perylene	0.12	J	mg/kg	0.16	0.042	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	121	Q	23-120
2-Fluorobiphenyl	89		30-120
4-Terphenyl-d14	90		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-48  
 Client ID: DP-061-SO-050-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 20:21  
 Analyst: JB  
 Percent Solids: 82%

Date Collected: 07/10/15 14:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.066	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.064	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.065	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.041	1
Fluorene	ND		mg/kg	0.20	0.057	1
Phenanthrene	ND		mg/kg	0.12	0.039	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	0.080	J	mg/kg	0.12	0.036	1
Pyrene	0.076	J	mg/kg	0.12	0.039	1
Benzo(a)anthracene	0.055	J	mg/kg	0.12	0.039	1
Chrysene	0.053	J	mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	0.047	J	mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	0.050	J	mg/kg	0.12	0.038	1
Benzo(a)pyrene	0.054	J	mg/kg	0.16	0.049	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	85		30-120
4-Terphenyl-d14	86		18-120

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-49  
**Client ID:** DP-061-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 07/16/15 04:50  
**Analyst:** JB  
**Percent Solids:** 83%

**Date Collected:** 07/10/15 14:15  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 16:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.063	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	103		30-120
4-Terphenyl-d14	95		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-50  
 Client ID: DP-062-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 18:50  
 Analyst: PS  
 Percent Solids: 85%

Date Collected: 07/10/15 14:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	121	Q	30-120
4-Terphenyl-d14	99		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-51  
 Client ID: DP-062-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 19:16  
 Analyst: PS  
 Percent Solids: 84%

Date Collected: 07/10/15 14:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	101		30-120
4-Terphenyl-d14	82		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-52  
 Client ID: DP-062-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 19:42  
 Analyst: PS  
 Percent Solids: 83%

Date Collected: 07/10/15 14:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.063	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	106		30-120
4-Terphenyl-d14	88		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1515969-53  
**Client ID:** DP-063-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 07/15/15 20:08  
**Analyst:** PS  
**Percent Solids:** 87%

**Date Collected:** 07/10/15 14:45  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.063	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.060	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.062	1
Acenaphthylene	ND		mg/kg	0.15	0.035	1
Acenaphthene	ND		mg/kg	0.15	0.039	1
Fluorene	ND		mg/kg	0.19	0.054	1
Phenanthrene	ND		mg/kg	0.11	0.037	1
Anthracene	ND		mg/kg	0.11	0.032	1
Fluoranthene	0.051	J	mg/kg	0.11	0.035	1
Pyrene	0.051	J	mg/kg	0.11	0.037	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.037	1
Chrysene	ND		mg/kg	0.11	0.037	1
Benzo(b)fluoranthene	0.040	J	mg/kg	0.11	0.038	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.036	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.046	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.042	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.037	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	94		30-120
4-Terphenyl-d14	73		18-120



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-54  
 Client ID: DP-063-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 20:34  
 Analyst: PS  
 Percent Solids: 86%

Date Collected: 07/10/15 14:47  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.061	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	ND		mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.040	1
Fluorene	ND		mg/kg	0.19	0.055	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.035	1
Pyrene	0.042	J	mg/kg	0.12	0.037	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.037	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	93		30-120
4-Terphenyl-d14	83		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-55  
 Client ID: DP-063-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 21:00  
 Analyst: PS  
 Percent Solids: 84%

Date Collected: 07/10/15 14:50  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.19	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	102		30-120
4-Terphenyl-d14	80		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-56  
 Client ID: DP-064-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 21:26  
 Analyst: PS  
 Percent Solids: 87%

Date Collected: 07/10/15 14:52  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.062	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.060	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.061	1
Acenaphthylene	ND		mg/kg	0.15	0.035	1
Acenaphthene	ND		mg/kg	0.15	0.039	1
Fluorene	ND		mg/kg	0.19	0.054	1
Phenanthrene	0.071	J	mg/kg	0.11	0.037	1
Anthracene	ND		mg/kg	0.11	0.031	1
Fluoranthene	0.15		mg/kg	0.11	0.034	1
Pyrene	0.14		mg/kg	0.11	0.036	1
Benzo(a)anthracene	0.090	J	mg/kg	0.11	0.037	1
Chrysene	0.090	J	mg/kg	0.11	0.037	1
Benzo(b)fluoranthene	0.11		mg/kg	0.11	0.038	1
Benzo(k)fluoranthene	0.040	J	mg/kg	0.11	0.036	1
Benzo(a)pyrene	0.086	J	mg/kg	0.15	0.046	1
Indeno(1,2,3-cd)pyrene	0.059	J	mg/kg	0.15	0.042	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.036	1
Benzo(ghi)perylene	0.059	J	mg/kg	0.15	0.039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	95		30-120
4-Terphenyl-d14	70		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-57  
 Client ID: DP-064-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 21:52  
 Analyst: PS  
 Percent Solids: 91%

Date Collected: 07/10/15 14:55  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.059	1
2-Methylnaphthalene	ND		mg/kg	0.21	0.057	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.058	1
Acenaphthylene	ND		mg/kg	0.14	0.033	1
Acenaphthene	ND		mg/kg	0.14	0.037	1
Fluorene	ND		mg/kg	0.18	0.051	1
Phenanthrene	ND		mg/kg	0.11	0.035	1
Anthracene	ND		mg/kg	0.11	0.030	1
Fluoranthene	ND		mg/kg	0.11	0.033	1
Pyrene	ND		mg/kg	0.11	0.035	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.035	1
Chrysene	ND		mg/kg	0.11	0.035	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.036	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.034	1
Benzo(a)pyrene	ND		mg/kg	0.14	0.044	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.14	0.040	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.035	1
Benzo(ghi)perylene	ND		mg/kg	0.14	0.037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	106		30-120
4-Terphenyl-d14	87		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-58  
 Client ID: DP-064-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 22:18  
 Analyst: PS  
 Percent Solids: 83%

Date Collected: 07/10/15 14:58  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.19	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	100		30-120
4-Terphenyl-d14	89		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-59  
 Client ID: DP-064-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/15/15 22:44  
 Analyst: PS  
 Percent Solids: 81%

Date Collected: 07/10/15 14:58  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 19:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.066	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.064	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.065	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.041	1
Fluorene	ND		mg/kg	0.20	0.057	1
Phenanthrene	ND		mg/kg	0.12	0.039	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.037	1
Pyrene	ND		mg/kg	0.12	0.039	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.039	1
Chrysene	ND		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.049	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.039	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.042	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	106		30-120
4-Terphenyl-d14	91		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/15/15 20:02  
**Analyst:** AS

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 17:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 15-29 Batch: WG801864-1					
Naphthalene	ND		mg/kg	0.16	0.054
2-Methylnaphthalene	ND		mg/kg	0.19	0.052
2-Chloronaphthalene	ND		mg/kg	0.16	0.053
Acenaphthylene	ND		mg/kg	0.13	0.030
Acenaphthene	ND		mg/kg	0.13	0.033
Fluorene	ND		mg/kg	0.16	0.046
Phenanthrene	ND		mg/kg	0.097	0.032
Anthracene	ND		mg/kg	0.097	0.027
Fluoranthene	ND		mg/kg	0.097	0.030
Pyrene	ND		mg/kg	0.097	0.031
Benzo(a)anthracene	ND		mg/kg	0.097	0.032
Chrysene	ND		mg/kg	0.097	0.032
Benzo(b)fluoranthene	ND		mg/kg	0.097	0.033
Benzo(k)fluoranthene	ND		mg/kg	0.097	0.031
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.13	0.036
Dibenzo(a,h)anthracene	ND		mg/kg	0.097	0.031
Benzo(ghi)perylene	ND		mg/kg	0.13	0.034

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	79		30-120
4-Terphenyl-d14	86		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/15/15 14:44  
**Analyst:** JB

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 16:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 30-49 Batch: WG801875-1					
Naphthalene	ND		mg/kg	0.16	0.054
2-Methylnaphthalene	ND		mg/kg	0.20	0.052
2-Chloronaphthalene	ND		mg/kg	0.16	0.053
Acenaphthylene	ND		mg/kg	0.13	0.030
Acenaphthene	ND		mg/kg	0.13	0.034
Fluorene	ND		mg/kg	0.16	0.047
Phenanthrene	ND		mg/kg	0.098	0.032
Anthracene	ND		mg/kg	0.098	0.027
Fluoranthene	ND		mg/kg	0.098	0.030
Pyrene	ND		mg/kg	0.098	0.032
Benzo(a)anthracene	ND		mg/kg	0.098	0.032
Chrysene	ND		mg/kg	0.098	0.032
Benzo(b)fluoranthene	ND		mg/kg	0.098	0.033
Benzo(k)fluoranthene	ND		mg/kg	0.098	0.031
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.13	0.036
Dibenzo(a,h)anthracene	ND		mg/kg	0.098	0.032
Benzo(ghi)perylene	ND		mg/kg	0.13	0.034

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	83		30-120
4-Terphenyl-d14	101		18-120



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/16/15 11:03  
**Analyst:** PS

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 19:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 50-59 Batch: WG801892-1					
Naphthalene	ND		mg/kg	0.17	0.055
2-Methylnaphthalene	ND		mg/kg	0.20	0.053
2-Chloronaphthalene	ND		mg/kg	0.17	0.054
Acenaphthylene	ND		mg/kg	0.13	0.031
Acenaphthene	ND		mg/kg	0.13	0.034
Fluorene	ND		mg/kg	0.17	0.048
Phenanthrene	ND		mg/kg	0.10	0.032
Anthracene	ND		mg/kg	0.10	0.028
Fluoranthene	ND		mg/kg	0.10	0.030
Pyrene	ND		mg/kg	0.10	0.032
Benzo(a)anthracene	ND		mg/kg	0.10	0.032
Chrysene	ND		mg/kg	0.10	0.033
Benzo(b)fluoranthene	ND		mg/kg	0.10	0.034
Benzo(k)fluoranthene	ND		mg/kg	0.10	0.032
Benzo(a)pyrene	ND		mg/kg	0.13	0.041
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.13	0.037
Dibenzo(a,h)anthracene	ND		mg/kg	0.10	0.032
Benzo(ghi)perylene	ND		mg/kg	0.13	0.034

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	120		30-120
4-Terphenyl-d14	122	Q	18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/14/15 19:14  
**Analyst:** PS

**Extraction Method:** EPA 3510C  
**Extraction Date:** 07/12/15 03:34

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03 Batch: WG801924-1					
Naphthalene	ND		ug/l	2.0	0.33
2-Methylnaphthalene	ND		ug/l	2.0	0.36
2-Chloronaphthalene	ND		ug/l	2.0	0.46
Acenaphthylene	ND		ug/l	2.0	0.37
Acenaphthene	ND		ug/l	2.0	0.28
Fluorene	ND		ug/l	2.0	0.32
Phenanthrene	ND		ug/l	2.0	0.23
Anthracene	ND		ug/l	2.0	0.20
Fluoranthene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.52
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Chrysene	ND		ug/l	2.0	0.30
Benzo(b)fluoranthene	ND		ug/l	2.0	0.37
Benzo(k)fluoranthene	ND		ug/l	2.0	0.30
Benzo(a)pyrene	ND		ug/l	2.0	0.66
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	0.43
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.44
Benzo(ghi)perylene	ND		ug/l	2.0	0.57

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	82		15-120
4-Terphenyl-d14	88		41-149

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-29 Batch: WG801864-2 WG801864-3								
Naphthalene	69		77		40-140	11		50
2-Methylnaphthalene	70		80		40-140	13		50
2-Chloronaphthalene	72		82		40-140	13		50
Acenaphthylene	75		86		40-140	14		50
Acenaphthene	72		80		31-137	11		50
Fluorene	73		84		40-140	14		50
Phenanthrene	72		82		40-140	13		50
Anthracene	73		81		40-140	10		50
Fluoranthene	72		84		40-140	15		50
Pyrene	72		84		35-142	15		50
Benzo(a)anthracene	71		82		40-140	14		50
Chrysene	71		81		40-140	13		50
Benzo(b)fluoranthene	75		84		40-140	11		50
Benzo(k)fluoranthene	72		83		40-140	14		50
Benzo(a)pyrene	74		84		40-140	13		50
Indeno(1,2,3-cd)pyrene	72		84		40-140	15		50
Dibenzo(a,h)anthracene	73		82		40-140	12		50
Benzo(ghi)perylene	73		81		40-140	10		50

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-29 Batch: WG801864-2 WG801864-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Nitrobenzene-d5	76		83		23-120
2-Fluorobiphenyl	74		79		30-120
4-Terphenyl-d14	72		79		18-120

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 30-49 Batch: WG801875-2 WG801875-3								
Naphthalene	100		93		40-140	7		50
2-Methylnaphthalene	106		97		40-140	9		50
2-Chloronaphthalene	109		99		40-140	10		50
Acenaphthylene	114		103		40-140	10		50
Acenaphthene	104		96		31-137	8		50
Fluorene	111		103		40-140	7		50
Phenanthrene	108		100		40-140	8		50
Anthracene	114		106		40-140	7		50
Fluoranthene	118		108		40-140	9		50
Pyrene	115		107		35-142	7		50
Benzo(a)anthracene	115		106		40-140	8		50
Chrysene	111		102		40-140	8		50
Benzo(b)fluoranthene	116		106		40-140	9		50
Benzo(k)fluoranthene	114		103		40-140	10		50
Benzo(a)pyrene	120		111		40-140	8		50
Indeno(1,2,3-cd)pyrene	123		113		40-140	8		50
Dibenzo(a,h)anthracene	116		108		40-140	7		50
Benzo(ghi)perylene	115		106		40-140	8		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 30-49 Batch: WG801875-2 WG801875-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	106		100		23-120
2-Fluorobiphenyl	113		103		30-120
4-Terphenyl-d14	115		107		18-120

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 50-59 Batch: WG801892-2 WG801892-3								
Naphthalene	72		88		40-140	20		50
2-Methylnaphthalene	75		92		40-140	20		50
2-Chloronaphthalene	90		107		40-140	17		50
Acenaphthylene	81		100		40-140	21		50
Acenaphthene	75		91		31-137	19		50
Fluorene	80		100		40-140	22		50
Phenanthrene	79		97		40-140	20		50
Anthracene	80		98		40-140	20		50
Fluoranthene	85		105		40-140	21		50
Pyrene	84		104		35-142	21		50
Benzo(a)anthracene	81		102		40-140	23		50
Chrysene	77		96		40-140	22		50
Benzo(b)fluoranthene	85		99		40-140	15		50
Benzo(k)fluoranthene	82		101		40-140	21		50
Benzo(a)pyrene	84		102		40-140	19		50
Indeno(1,2,3-cd)pyrene	81		98		40-140	19		50
Dibenzo(a,h)anthracene	82		93		40-140	13		50
Benzo(ghi)perylene	80		98		40-140	20		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 50-59 Batch: WG801892-2 WG801892-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Nitrobenzene-d5	61		86		23-120
2-Fluorobiphenyl	87		103		30-120
4-Terphenyl-d14	86		104		18-120



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG801924-2 WG801924-3								
Naphthalene	66		70		40-140	6		30
2-Methylnaphthalene	73		77		40-140	5		30
2-Chloronaphthalene	82		86		40-140	5		30
Acenaphthylene	82		86		45-123	5		30
Acenaphthene	74		77		37-111	4		30
Fluorene	81		84		40-140	4		30
Phenanthrene	78		81		40-140	4		30
Anthracene	84		87		40-140	4		30
Fluoranthene	86		88		40-140	2		30
Pyrene	86		87		26-127	1		30
Benzo(a)anthracene	80		84		40-140	5		30
Chrysene	78		81		40-140	4		30
Benzo(b)fluoranthene	81		82		40-140	1		30
Benzo(k)fluoranthene	78		80		40-140	3		30
Benzo(a)pyrene	79		81		40-140	3		30
Indeno(1,2,3-cd)Pyrene	83		86		40-140	4		30
Dibenzo(a,h)anthracene	84		85		40-140	1		30
Benzo(ghi)perylene	80		83		40-140	4		30

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03 Batch: WG801924-2 WG801924-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Nitrobenzene-d5	64		64		23-120
2-Fluorobiphenyl	83		86		15-120
4-Terphenyl-d14	87		92		41-149

# PETROLEUM HYDROCARBONS

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-02  
 Client ID: EB01-071015  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 16:58  
 Analyst: AR

Date Collected: 07/10/15 15:05  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 07/12/15 05:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	93.1	J	ug/l	556	23.3	1
---------------	------	---	------	-----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	77		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-02  
 Client ID: EB01-071015  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/15/15 03:02  
 Analyst: BS

Date Collected: 07/10/15 15:05  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	49	J	ug/l	50	3.0	1
-------------------------	----	---	------	----	-----	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	99		70-130
4-Bromofluorobenzene	93		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-03  
 Client ID: EB02-071015  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 18:36  
 Analyst: AR

Date Collected: 07/10/15 15:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 07/12/15 05:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	85.3	J	ug/l	556	23.3	1
---------------	------	---	------	-----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	77		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-03  
 Client ID: EB02-071015  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/15/15 03:43  
 Analyst: BS

Date Collected: 07/10/15 15:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		ug/l	50	3.0	1
-------------------------	----	--	------	----	-----	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	99		70-130
4-Bromofluorobenzene	95		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-04  
 Client ID: DP-050-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 09:38  
 Analyst: BS  
 Percent Solids: 88%

Date Collected: 07/10/15 08:15  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	ND		mg/kg	2.8	0.053	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	97		70-130
4-Bromofluorobenzene	101		70-130



**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-04 D  
**Client ID:** DP-050-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/16/15 11:57  
**Analyst:** AR  
**Percent Solids:** 88%

**Date Collected:** 07/10/15 08:15  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	404.		mg/kg	72.6	8.10	2
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	65		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-05  
 Client ID: DP-050-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 10:44  
 Analyst: SW  
 Percent Solids: 85%

Date Collected: 07/10/15 08:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	ND		mg/kg	38.1	4.25	1
---------------	----	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	53		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-05  
 Client ID: DP-050-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 10:17  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/10/15 08:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.8	0.054	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	97		70-130
4-Bromofluorobenzene	102		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-06  
 Client ID: DP-051-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 11:20  
 Analyst: SW  
 Percent Solids: 87%

Date Collected: 07/10/15 08:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	ND		mg/kg	36.6	4.08	1
---------------	----	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	73		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-06  
 Client ID: DP-051-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 10:56  
 Analyst: BS  
 Percent Solids: 87%

Date Collected: 07/10/15 08:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.6	0.049	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		70-130
4-Bromofluorobenzene	101		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-07  
 Client ID: DP-051-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 11:55  
 Analyst: SW  
 Percent Solids: 84%

Date Collected: 07/10/15 08:44  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	21.5	J	mg/kg	38.0	4.24	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	66		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-07  
 Client ID: DP-051-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 14:13  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/10/15 08:44  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	ND		mg/kg	2.9	0.056	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	87		70-130
4-Bromofluorobenzene	89		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-08  
 Client ID: DP-051-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 06:33  
 Analyst: SW  
 Percent Solids: 84%

Date Collected: 07/10/15 08:44  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	69.7		mg/kg	37.7	4.21	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	80		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-08  
 Client ID: DP-051-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 16:11  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/10/15 08:44  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.4	0.046	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	100		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-09  
 Client ID: DP-048-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 12:31  
 Analyst: SW  
 Percent Solids: 90%

Date Collected: 07/10/15 09:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	18.9	J	mg/kg	35.3	3.94	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	69		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-09  
 Client ID: DP-048-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 16:51  
 Analyst: BS  
 Percent Solids: 90%

Date Collected: 07/10/15 09:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	0.97	J	mg/kg	2.6	0.049	1
-------------------------	------	---	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		70-130
4-Bromofluorobenzene	97		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-10  
 Client ID: DP-048-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 05:22  
 Analyst: SW  
 Percent Solids: 87%

Date Collected: 07/10/15 09:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	84.4		mg/kg	36.8	4.11	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	65		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-10  
 Client ID: DP-048-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 17:30  
 Analyst: BS  
 Percent Solids: 87%

Date Collected: 07/10/15 09:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.5	0.048	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		70-130
4-Bromofluorobenzene	100		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-11  
 Client ID: DP-049-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 16:10  
 Analyst: SW  
 Percent Solids: 87%

Date Collected: 07/10/15 09:17  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	5.39	J	mg/kg	37.9	4.23	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	64		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-11  
 Client ID: DP-049-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 18:09  
 Analyst: BS  
 Percent Solids: 87%

Date Collected: 07/10/15 09:17  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.6	0.051	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	92		70-130
4-Bromofluorobenzene	98		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-12  
 Client ID: DP-049-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 16:46  
 Analyst: SW  
 Percent Solids: 86%

Date Collected: 07/10/15 09:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	ND		mg/kg	36.3	4.05	1
---------------	----	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	63		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-12  
 Client ID: DP-049-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 18:49  
 Analyst: BS  
 Percent Solids: 86%

Date Collected: 07/10/15 09:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.8	0.053	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	97		70-130
4-Bromofluorobenzene	103		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-13  
 Client ID: DP-052-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 07:09  
 Analyst: SW  
 Percent Solids: 91%

Date Collected: 07/10/15 09:40  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	163.		mg/kg	35.6	3.97	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	77		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-13  
 Client ID: DP-052-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 19:28  
 Analyst: BS  
 Percent Solids: 91%

Date Collected: 07/10/15 09:40  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.6	0.051	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	97		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-14  
 Client ID: DP-052-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 09:32  
 Analyst: SW  
 Percent Solids: 84%

Date Collected: 07/10/15 09:45  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	21.0	J	mg/kg	37.4	4.18	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	64		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-14  
 Client ID: DP-052-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 20:07  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/10/15 09:45  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.055	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	97		70-130
4-Bromofluorobenzene	104		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-15  
 Client ID: DP-047-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 04:46  
 Analyst: SW  
 Percent Solids: 87%

Date Collected: 07/10/15 08:50  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	148.		mg/kg	36.8	4.10	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	73		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-15  
 Client ID: DP-047-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 20:47  
 Analyst: BS  
 Percent Solids: 87%

Date Collected: 07/10/15 08:50  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	ND		mg/kg	2.4	0.046	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	84		70-130
4-Bromofluorobenzene	88		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-16  
 Client ID: DP-047-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 05:57  
 Analyst: SW  
 Percent Solids: 85%

Date Collected: 07/10/15 08:50  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	155.		mg/kg	37.6	4.20	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	64		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-16  
 Client ID: DP-047-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 21:26  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/10/15 08:50  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	ND		mg/kg	2.9	0.057	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	99		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-17  
 Client ID: DP-047-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 13:07  
 Analyst: SW  
 Percent Solids: 85%

Date Collected: 07/10/15 08:55  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	7.01	J	mg/kg	37.7	4.21	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	72		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-17  
 Client ID: DP-047-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 22:05  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/10/15 08:55  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	ND		mg/kg	2.7	0.053	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	97		70-130
4-Bromofluorobenzene	102		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-18  
 Client ID: DP-047-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 14:18  
 Analyst: SW  
 Percent Solids: 85%

Date Collected: 07/10/15 09:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	ND		mg/kg	38.9	4.34	1
---------------	----	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	74		40-140

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-18  
**Client ID:** DP-047-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/18/15 22:45  
**Analyst:** BS  
**Percent Solids:** 85%

**Date Collected:** 07/10/15 09:00  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.053	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	97		70-130
4-Bromofluorobenzene	104		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-19  
**Client ID:** DP-053-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/17/15 15:31  
**Analyst:** BS  
**Percent Solids:** 92%

**Date Collected:** 07/10/15 10:05  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		mg/kg	2.6	0.050	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	86		70-130
4-Bromofluorobenzene	71		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-19 D  
 Client ID: DP-053-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/16/15 12:29  
 Analyst: AR  
 Percent Solids: 92%

Date Collected: 07/10/15 10:05  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	472.		mg/kg	70.8	7.90	2
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	76		40-140

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-20  
**Client ID:** DP-053-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/13/15 13:43  
**Analyst:** SW  
**Percent Solids:** 95%

**Date Collected:** 07/10/15 10:10  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	ND		mg/kg	33.4	3.73	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	76		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-20  
 Client ID: DP-053-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 17:32  
 Analyst: BS  
 Percent Solids: 95%

Date Collected: 07/10/15 10:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	ND		mg/kg	2.4	0.046	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	83		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-21  
 Client ID: DP-053-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 14:58  
 Analyst: SW  
 Percent Solids: 90%

Date Collected: 07/10/15 10:15  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	26.6	J	mg/kg	34.8	3.88	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	62		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-21  
 Client ID: DP-053-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 18:13  
 Analyst: BS  
 Percent Solids: 90%

Date Collected: 07/10/15 10:15  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	ND		mg/kg	2.3	0.044	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	94		70-130
4-Bromofluorobenzene	80		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-22  
 Client ID: DP-054-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 18:53  
 Analyst: BS  
 Percent Solids: 89%

Date Collected: 07/10/15 10:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	9.8		mg/kg	2.8	0.054	1
-------------------------	-----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	78		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-22 D  
**Client ID:** DP-054-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/13/15 08:20  
**Analyst:** SW  
**Percent Solids:** 89%

**Date Collected:** 07/10/15 10:20  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	2850		mg/kg	354	39.5	10
---------------	------	--	-------	-----	------	----

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-23  
 Client ID: DP-054-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 15:34  
 Analyst: SW  
 Percent Solids: 91%

Date Collected: 07/10/15 10:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	5.30	J	mg/kg	35.6	3.97	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	54		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-23  
 Client ID: DP-054-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 19:34  
 Analyst: BS  
 Percent Solids: 91%

Date Collected: 07/10/15 10:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	2.3	J	mg/kg	2.5	0.049	1
-------------------------	-----	---	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	80		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-24  
 Client ID: DP-054-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 21:50  
 Analyst: AR  
 Percent Solids: 85%

Date Collected: 07/10/15 10:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	112.		mg/kg	38.2	4.26	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	63		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-24  
 Client ID: DP-054-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 20:14  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/10/15 10:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.057	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	83		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-25  
 Client ID: DP-054-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 08:03  
 Analyst: SW  
 Percent Solids: 86%

Date Collected: 07/10/15 10:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	104.		mg/kg	36.9	4.12	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	59		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-25  
 Client ID: DP-054-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 20:54  
 Analyst: BS  
 Percent Solids: 86%

Date Collected: 07/10/15 10:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	82		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-26  
 Client ID: DP-055-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 15:51  
 Analyst: SW  
 Percent Solids: 85%

Date Collected: 07/10/15 10:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	9.18	J	mg/kg	37.6	4.20	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-26  
 Client ID: DP-055-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 21:35  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/10/15 10:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	ND		mg/kg	2.9	0.055	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	81		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-27  
 Client ID: DP-055-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 08:39  
 Analyst: SW  
 Percent Solids: 89%

Date Collected: 07/10/15 10:40  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	17.1	J	mg/kg	35.6	3.97	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	53		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-27  
 Client ID: DP-055-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 22:15  
 Analyst: BS  
 Percent Solids: 89%

Date Collected: 07/10/15 10:40  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	84		70-130
4-Bromofluorobenzene	72		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-28  
**Client ID:** DP-055-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/19/15 09:27  
**Analyst:** BS  
**Percent Solids:** 83%

**Date Collected:** 07/10/15 10:45  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.8	0.054	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	80		70-130



**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-28 D  
**Client ID:** DP-055-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/16/15 10:52  
**Analyst:** AR  
**Percent Solids:** 83%

**Date Collected:** 07/10/15 10:45  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	579.		mg/kg	199	22.2	5
---------------	------	--	-------	-----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	66		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-29  
 Client ID: DP-056-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 09:15  
 Analyst: SW  
 Percent Solids: 84%

Date Collected: 07/10/15 12:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	5.37	J	mg/kg	37.9	4.23	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-29  
 Client ID: DP-056-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 23:36  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/10/15 12:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	ND		mg/kg	2.8	0.055	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	80		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-30  
 Client ID: DP-056-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 09:50  
 Analyst: SW  
 Percent Solids: 87%

Date Collected: 07/10/15 12:13  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	6.93	J	mg/kg	37.3	4.17	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	58		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-30  
 Client ID: DP-056-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 00:16  
 Analyst: BS  
 Percent Solids: 87%

Date Collected: 07/10/15 12:13  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.8	0.053	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	92		70-130
4-Bromofluorobenzene	80		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-31  
**Client ID:** DP-056-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/18/15 03:38  
**Analyst:** BS  
**Percent Solids:** 86%

**Date Collected:** 07/10/15 12:15  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		mg/kg	2.5	0.048	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	85		70-130
4-Bromofluorobenzene	71		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-31 D  
**Client ID:** DP-056-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/16/15 10:20  
**Analyst:** AR  
**Percent Solids:** 86%

**Date Collected:** 07/10/15 12:15  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	631.		mg/kg	75.1	8.38	2
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	72		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-32  
 Client ID: DP-057-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 12:14  
 Analyst: SW  
 Percent Solids: 83%

Date Collected: 07/10/15 12:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	78.9		mg/kg	38.4	4.29	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	43		40-140



**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-32  
**Client ID:** DP-057-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/18/15 05:39  
**Analyst:** BS  
**Percent Solids:** 83%

**Date Collected:** 07/10/15 12:20  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		mg/kg	2.8	0.054	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	91		70-130
4-Bromofluorobenzene	77		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

Lab ID: L1515969-33 D

Date Collected: 07/10/15 12:22

Client ID: DP-057-SO-050-01

Date Received: 07/10/15

Sample Location: Not Specified

Field Prep: Not Specified

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8015C(M)

Extraction Date: 07/11/15 17:06

Analytical Date: 07/16/15 13:02

Analyst: AR

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	5050		mg/kg	760	84.8	20
---------------	------	--	-------	-----	------	----

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	62		40-140

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

Lab ID: L1515969-33 D

Date Collected: 07/10/15 12:22

Client ID: DP-057-SO-050-01

Date Received: 07/10/15

Sample Location: Not Specified

Field Prep: Not Specified

Matrix: Soil

Extraction Method:

Analytical Method: 1,8015C(M)

Analytical Date: 07/18/15 12:22

Analyst: BS

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	110		mg/kg	5.6	0.11	2
-------------------------	-----	--	-------	-----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	83		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-34  
 Client ID: DP-057-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 13:28  
 Analyst: SW  
 Percent Solids: 85%

Date Collected: 07/10/15 12:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	10.7	J	mg/kg	37.3	4.17	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	56		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-34  
 Client ID: DP-057-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 06:19  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/10/15 12:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	81		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-35  
 Client ID: DP-057-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 14:04  
 Analyst: SW  
 Percent Solids: 90%

Date Collected: 07/10/15 12:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	10.3	J	mg/kg	37.2	4.15	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	59		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-35  
 Client ID: DP-057-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 06:59  
 Analyst: BS  
 Percent Solids: 90%

Date Collected: 07/10/15 12:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	91		70-130
4-Bromofluorobenzene	81		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-36  
 Client ID: DP-058-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 06:52  
 Analyst: SW  
 Percent Solids: 86%

Date Collected: 07/10/15 12:55  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	30.2	J	mg/kg	36.9	4.12	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-36  
 Client ID: DP-058-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 07:39  
 Analyst: BS  
 Percent Solids: 86%

Date Collected: 07/10/15 12:55  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	88		70-130
4-Bromofluorobenzene	76		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-37  
 Client ID: DP-058-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 14:39  
 Analyst: SW  
 Percent Solids: 88%

Date Collected: 07/10/15 13:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	6.25	J	mg/kg	36.5	4.08	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	72		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-37  
 Client ID: DP-058-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 08:20  
 Analyst: BS  
 Percent Solids: 88%

Date Collected: 07/10/15 13:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	94		70-130
4-Bromofluorobenzene	80		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-38  
 Client ID: DP-058-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 15:15  
 Analyst: SW  
 Percent Solids: 87%

Date Collected: 07/10/15 13:05  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	4.84	J	mg/kg	37.0	4.13	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	87		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-38  
 Client ID: DP-058-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 09:00  
 Analyst: BS  
 Percent Solids: 87%

Date Collected: 07/10/15 13:05  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.053	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	90		70-130
4-Bromofluorobenzene	78		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-39  
 Client ID: DP-059-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 11:38  
 Analyst: SW  
 Percent Solids: 89%

Date Collected: 07/10/15 13:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	18.2	J	mg/kg	36.3	4.06	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	79		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-39  
 Client ID: DP-059-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 09:40  
 Analyst: BS  
 Percent Solids: 89%

Date Collected: 07/10/15 13:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	88		70-130
4-Bromofluorobenzene	75		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-40  
 Client ID: DP-059-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 11:02  
 Analyst: SW  
 Percent Solids: 89%

Date Collected: 07/10/15 13:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	13.3	J	mg/kg	36.8	4.10	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	58		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-40  
 Client ID: DP-059-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 10:21  
 Analyst: BS  
 Percent Solids: 89%

Date Collected: 07/10/15 13:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	ND		mg/kg	2.8	0.054	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	84		70-130
4-Bromofluorobenzene	72		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-41  
 Client ID: DP-059-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 22:23  
 Analyst: AR  
 Percent Solids: 85%

Date Collected: 07/10/15 13:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	254.		mg/kg	37.8	4.22	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	96		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-41  
 Client ID: DP-059-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 11:01  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/10/15 13:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.055	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	86		70-130
4-Bromofluorobenzene	75		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-42  
 Client ID: DP-059-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 12:53  
 Analyst: SW  
 Percent Solids: 85%

Date Collected: 07/10/15 13:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	158.		mg/kg	39.1	4.37	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	101		40-140

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-42  
**Client ID:** DP-059-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/18/15 11:42  
**Analyst:** BS  
**Percent Solids:** 85%

**Date Collected:** 07/10/15 13:30  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	91		70-130
4-Bromofluorobenzene	79		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-43  
 Client ID: DP-060-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 10:26  
 Analyst: SW  
 Percent Solids: 84%

Date Collected: 07/10/15 13:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	18.9	J	mg/kg	37.5	4.18	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	83		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-43  
 Client ID: DP-060-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 15:44  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/10/15 13:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.8	0.054	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	88		70-130
4-Bromofluorobenzene	75		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-44  
 Client ID: DP-060-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 04:08  
 Analyst: AR  
 Percent Solids: 84%

Date Collected: 07/10/15 13:40  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	49.2		mg/kg	38.2	4.26	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	92		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-44  
 Client ID: DP-060-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 17:45  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/10/15 13:40  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	ND		mg/kg	2.6	0.050	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	90		70-130
4-Bromofluorobenzene	77		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-45  
**Client ID:** DP-060-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/14/15 10:06  
**Analyst:** AR  
**Percent Solids:** 82%

**Date Collected:** 07/10/15 13:45  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	5.10	J	mg/kg	39.0	4.35	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	92		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-45  
 Client ID: DP-060-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 18:25  
 Analyst: BS  
 Percent Solids: 82%

Date Collected: 07/10/15 13:45  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.056	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	87		70-130
4-Bromofluorobenzene	74		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-46  
**Client ID:** DP-061-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/14/15 04:41  
**Analyst:** AR  
**Percent Solids:** 88%

**Date Collected:** 07/10/15 14:05  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	37.2	J	mg/kg	37.6	4.20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	88		40-140

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-46  
**Client ID:** DP-061-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/18/15 19:06  
**Analyst:** BS  
**Percent Solids:** 88%

**Date Collected:** 07/10/15 14:05  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.8	0.053	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	91		70-130
4-Bromofluorobenzene	77		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-47  
**Client ID:** DP-061-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/14/15 05:13  
**Analyst:** AR  
**Percent Solids:** 82%

**Date Collected:** 07/10/15 14:10  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	291.		mg/kg	39.9	4.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	90		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-47  
 Client ID: DP-061-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 23:48  
 Analyst: BS  
 Percent Solids: 82%

Date Collected: 07/10/15 14:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	60.		mg/kg	2.8	0.054	1
-------------------------	-----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	87		70-130
4-Bromofluorobenzene	70		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-48  
 Client ID: DP-061-SO-050-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 05:45  
 Analyst: AR  
 Percent Solids: 82%

Date Collected: 07/10/15 14:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	230.		mg/kg	39.9	4.46	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	88		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-48  
 Client ID: DP-061-SO-050-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 00:29  
 Analyst: BS  
 Percent Solids: 82%

Date Collected: 07/10/15 14:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	57.		mg/kg	2.7	0.051	1
-------------------------	-----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	89		70-130
4-Bromofluorobenzene	73		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-49  
 Client ID: DP-061-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 11:15  
 Analyst: AR  
 Percent Solids: 83%

Date Collected: 07/10/15 14:15  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	60.0		mg/kg	39.8	4.44	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	88		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-49  
 Client ID: DP-061-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 19:46  
 Analyst: BS  
 Percent Solids: 83%

Date Collected: 07/10/15 14:15  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	3.6		mg/kg	2.8	0.054	1
-------------------------	-----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	87		70-130
4-Bromofluorobenzene	74		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-50  
 Client ID: DP-062-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 11:47  
 Analyst: AR  
 Percent Solids: 85%

Date Collected: 07/10/15 14:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	ND		mg/kg	37.0	4.13	1
---------------	----	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

**Project Name:** BUZZARD POINT**Lab Number:** L1515969**Project Number:** 40223-002**Report Date:** 07/20/15**SAMPLE RESULTS**

**Lab ID:** L1515969-50  
**Client ID:** DP-062-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/18/15 20:26  
**Analyst:** BS  
**Percent Solids:** 85%

**Date Collected:** 07/10/15 14:25  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.055	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	91		70-130
4-Bromofluorobenzene	79		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-51  
 Client ID: DP-062-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 08:28  
 Analyst: AR  
 Percent Solids: 84%

Date Collected: 07/10/15 14:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	10.9	J	mg/kg	39.7	4.43	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	96		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-51  
 Client ID: DP-062-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 21:07  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/10/15 14:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.4	0.045	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	91		70-130
4-Bromofluorobenzene	78		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-52  
 Client ID: DP-062-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 09:00  
 Analyst: AR  
 Percent Solids: 83%

Date Collected: 07/10/15 14:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	8.69	J	mg/kg	37.9	4.24	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	90		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-52  
 Client ID: DP-062-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 21:47  
 Analyst: BS  
 Percent Solids: 83%

Date Collected: 07/10/15 14:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.8	0.053	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	90		70-130
4-Bromofluorobenzene	78		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-53  
 Client ID: DP-063-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 07:55  
 Analyst: AR  
 Percent Solids: 87%

Date Collected: 07/10/15 14:45  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	30.6	J	mg/kg	37.4	4.17	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	88		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-53  
 Client ID: DP-063-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 22:28  
 Analyst: BS  
 Percent Solids: 87%

Date Collected: 07/10/15 14:45  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	ND		mg/kg	2.8	0.054	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	85		70-130
4-Bromofluorobenzene	71		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-54  
 Client ID: DP-063-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 07:23  
 Analyst: AR  
 Percent Solids: 86%

Date Collected: 07/10/15 14:47  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	14.1	J	mg/kg	38.0	4.24	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	80		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-54  
 Client ID: DP-063-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 23:08  
 Analyst: BS  
 Percent Solids: 86%

Date Collected: 07/10/15 14:47  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.055	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	86		70-130
4-Bromofluorobenzene	73		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-55  
 Client ID: DP-063-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 09:33  
 Analyst: AR  
 Percent Solids: 84%

Date Collected: 07/10/15 14:50  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	5.94	J	mg/kg	38.0	4.24	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	86		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-55  
 Client ID: DP-063-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 21:22  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/10/15 14:50  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.5	0.048	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	88		70-130
4-Bromofluorobenzene	94		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-56  
 Client ID: DP-064-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 06:50  
 Analyst: AR  
 Percent Solids: 87%

Date Collected: 07/10/15 14:52  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	21.7	J	mg/kg	36.6	4.08	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	75		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-56  
 Client ID: DP-064-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 23:21  
 Analyst: BS  
 Percent Solids: 87%

Date Collected: 07/10/15 14:52  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	100		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-57  
 Client ID: DP-064-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 10:42  
 Analyst: AR  
 Percent Solids: 91%

Date Collected: 07/10/15 14:55  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	6.06	J	mg/kg	34.8	3.88	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	95		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-57  
 Client ID: DP-064-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 00:00  
 Analyst: BS  
 Percent Solids: 91%

Date Collected: 07/10/15 14:55  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	97		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-58  
 Client ID: DP-064-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/13/15 10:07  
 Analyst: AR  
 Percent Solids: 83%

Date Collected: 07/10/15 14:58  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	26.0	J	mg/kg	39.8	4.44	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	55		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-58  
 Client ID: DP-064-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 00:40  
 Analyst: BS  
 Percent Solids: 83%

Date Collected: 07/10/15 14:58  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.6	0.050	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	92		70-130
4-Bromofluorobenzene	97		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-59  
 Client ID: DP-064-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 06:18  
 Analyst: AR  
 Percent Solids: 81%

Date Collected: 07/10/15 14:58  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	21.6	J	mg/kg	40.0	4.46	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	90		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-59  
 Client ID: DP-064-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 01:19  
 Analyst: BS  
 Percent Solids: 81%

Date Collected: 07/10/15 14:58  
 Date Received: 07/10/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	3.0	0.057	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	98		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/13/15 02:24  
**Analyst:** SW

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 16:24

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 04-23 Batch: WG801865-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	31.6	3.53

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	61		40-140



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8015C(M)  
 Analytical Date: 07/14/15 05:41  
 Analyst: SW

Extraction Method: EPA 3546  
 Extraction Date: 07/11/15 17:06

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 24-43 Batch: WG801878-1					
Total Petroleum Hydrocarbons (C9-C44)	5.90	J	mg/kg	32.3	3.61

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	62		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/14/15 02:31  
**Analyst:** AR

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/11/15 17:49

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 44-59 Batch: WG801880-1					
Total Petroleum Hydrocarbons (C9-C44)	4.01	J	mg/kg	31.3	3.50

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	84		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/14/15 15:21  
**Analyst:** AR

**Extraction Method:** EPA 3510C  
**Extraction Date:** 07/12/15 05:14

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 02-03 Batch: WG801926-1					
Total Petroleum Hydrocarbons (C9-C44)	74.9	J	ug/l	500	21.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	73		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8015C(M)  
Analytical Date: 07/14/15 23:00  
Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 02-03 Batch: WG802840-3					
Gasoline Range Organics	ND		ug/l	50	3.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	97		70-130
4-Bromofluorobenzene	92		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 01:47  
 Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 04-06 Batch: WG804052-3					
Gasoline Range Organics	ND		mg/kg	2.5	0.048

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	89		70-130
4-Bromofluorobenzene	94		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/18/15 13:34  
**Analyst:** BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 07-18 Batch: WG804053-3					
Gasoline Range Organics	ND		mg/kg	2.5	0.048

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	87		70-130
4-Bromofluorobenzene	94		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/17/15 14:51  
**Analyst:** BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 19-27,29-30 Batch: WG804058-3					
Gasoline Range Organics	ND		mg/kg	2.5	0.048

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	97		70-130
4-Bromofluorobenzene	93		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8015C(M)  
 Analytical Date: 07/18/15 02:57  
 Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 31-42 Batch: WG804060-3					
Gasoline Range Organics	ND		mg/kg	2.5	0.048

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	89		70-130
4-Bromofluorobenzene	84		70-130



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8015C(M)  
Analytical Date: 07/18/15 15:03  
Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 43-54 Batch: WG804061-3					
Gasoline Range Organics	ND		mg/kg	2.5	0.048

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	87		70-130
4-Bromofluorobenzene	83		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/19/15 20:43  
**Analyst:** BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 55-59 Batch: WG804240-3					
Gasoline Range Organics	ND		mg/kg	2.5	0.048

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	84		70-130
4-Bromofluorobenzene	92		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 08:47  
 Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 28 Batch: WG804241-3					
Gasoline Range Organics	ND		mg/kg	2.5	0.048

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	95		70-130

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 04-23 Batch: WG801865-2								
Total Petroleum Hydrocarbons (C9-C44)	96		-		40-140	-		40

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
o-Terphenyl	72				40-140

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 24-43 Batch: WG801878-2								
Total Petroleum Hydrocarbons (C9-C44)	78		-		40-140	-		40

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
o-Terphenyl	55				40-140

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 44-59 Batch: WG801880-2								
Total Petroleum Hydrocarbons (C9-C44)	101		-		40-140	-		40

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
o-Terphenyl	94				40-140

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 02-03 Batch: WG801926-2 WG801926-3								
DROD (C9-C44)	71		78		40-140	4		40

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
o-Terphenyl	77		85		40-140

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 02-03 Batch: WG802840-1 WG802840-2								
Gasoline Range Organics	94		95		80-120	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	100		100		70-130
4-Bromofluorobenzene	96		96		70-130



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Gasoline Range Organics - Westborough Lab Associated sample(s): 04-06 Batch: WG804052-1 WG804052-2								
Gasoline Range Organics	90		94		80-120	4		20

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,1,1-Trifluorotoluene	100		102		70-130
4-Bromofluorobenzene	104		107		70-130

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 07-18 Batch: WG804053-1 WG804053-2								
Gasoline Range Organics	89		89		80-120	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	98		96		70-130
4-Bromofluorobenzene	101		100		70-130

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 19-27,29-30 Batch: WG804058-1 WG804058-2								
Gasoline Range Organics	86		97		80-120	12		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	103		105		70-130
4-Bromofluorobenzene	94		98		70-130

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Gasoline Range Organics - Westborough Lab Associated sample(s): 31-42 Batch: WG804060-1 WG804060-2								
Gasoline Range Organics	92		94		80-120	2		20

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,1,1-Trifluorotoluene	98		101		70-130
4-Bromofluorobenzene	94		93		70-130

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 43-54 Batch: WG804061-1 WG804061-2								
Gasoline Range Organics	90		94		80-120	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	97		99		70-130
4-Bromofluorobenzene	91		93		70-130

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 55-59 Batch: WG804240-1 WG804240-2								
Gasoline Range Organics	90		91		80-120	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	102		99		70-130
4-Bromofluorobenzene	109		106		70-130

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 28 Batch: WG804241-1 WG804241-2								
Gasoline Range Organics	96		98		80-120	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	102		106		70-130
4-Bromofluorobenzene	96		98		70-130

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Gasoline Range Organics - Westborough Lab Associated sample(s): 04-06 QC Batch ID: WG804052-5 QC Sample: L1515823-39 Client ID: MS Sample												
Gasoline Range Organics	ND	23.8	22	91		-	-		80-120	-		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1,1,1-Trifluorotoluene	100				70-130
4-Bromofluorobenzene	103				70-130



## Matrix Spike Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Gasoline Range Organics - Westborough Lab Associated sample(s): 07-18 QC Batch ID: WG804053-5 QC Sample: L1515969-07 Client ID: DP-051-SO-100-01												
Gasoline Range Organics	ND	23.2	20	86		-	-		80-120	-		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1,1,1-Trifluorotoluene	98				70-130
4-Bromofluorobenzene	102				70-130

### Matrix Spike Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Gasoline Range Organics - Westborough Lab Associated sample(s): 19-27,29-30 QC Batch ID: WG804058-5 QC Sample: L1515969-19 Client ID: DP-053-SO-010-01												
Gasoline Range Organics	ND	20.8	20	96		-	-		80-120	-		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>MS Qualifier</i>	<i>MSD % Recovery</i>	<i>MSD Qualifier</i>	<i>Acceptance Criteria</i>
1,1,1-Trifluorotoluene	101				70-130
4-Bromofluorobenzene	81				70-130

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Gasoline Range Organics - Westborough Lab Associated sample(s): 31-42 QC Batch ID: WG804060-5 QC Sample: L1515969-31 Client ID: DP-056-SO-100-01												
Gasoline Range Organics	ND	20	18	92		-	-		80-120	-		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1,1,1-Trifluorotoluene	94				70-130
4-Bromofluorobenzene	79				70-130

## Matrix Spike Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>MS Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>MSD Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>RPD Qual</i>	<i>RPD Limits</i>
Gasoline Range Organics - Westborough Lab Associated sample(s): 43-54 QC Batch ID: WG804061-5 QC Sample: L1515969-43 Client ID: DP-060-SO-010-01												
Gasoline Range Organics	ND	22.2	20	89		-	-		80-120	-		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>MS Qualifier</i>	<i>MSD % Recovery</i>	<i>MSD Qualifier</i>	<i>Acceptance Criteria</i>
1,1,1-Trifluorotoluene	94				70-130
4-Bromofluorobenzene	79				70-130

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Gasoline Range Organics - Westborough Lab Associated sample(s): 55-59 QC Batch ID: WG804240-5 QC Sample: L1515969-55 Client ID: DP-063-SO-100-01												
Gasoline Range Organics	ND	20.1	18	88		-	-		80-120	-		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1,1,1-Trifluorotoluene	101				70-130
4-Bromofluorobenzene	107				70-130

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>MS Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>MSD Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>RPD Qual</i>	<i>RPD Limits</i>
Gasoline Range Organics - Westborough Lab Associated sample(s): 28 QC Batch ID: WG804241-5 QC Sample: L1515969-28 Client ID: DP-055-SO-100-01												
Gasoline Range Organics	ND	22.6	21	94		-	-		80-120	-		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>MS Qualifier</i>	<i>MSD % Recovery</i>	<i>MSD Qualifier</i>	<i>Acceptance Criteria</i>
1,1,1-Trifluorotoluene	101				70-130
4-Bromofluorobenzene	84				70-130

**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 04-23 QC Batch ID: WG801865-3 QC Sample: L1515969-04 Client ID: DP-050-SO-050-01						
Total Petroleum Hydrocarbons (C9-C44)	404	205	mg/kg	65	Q	40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	65		70		40-140

Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 24-43 QC Batch ID: WG801878-3 QC Sample: L1515969-24 Client ID: DP-054-SO-100-01						
Total Petroleum Hydrocarbons (C9-C44)	112	138	mg/kg	21		40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	63		62		40-140

**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** BUZZARD POINT

**Project Number:** 40223-002

**Lab Number:** L1515969

**Report Date:** 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 44-59 QC Batch ID: WG801880-3 QC Sample: L1515969-44 Client ID: DP-060-SO-050-01					
Total Petroleum Hydrocarbons (C9-C44)	49.2	33.7J	mg/kg	NC	40

Surrogate	%Recovery Qualifier	%Recovery Qualifier	Acceptance Criteria
o-Terphenyl	92	88	40-140





## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 04-06 QC Batch ID: WG804052-4 QC Sample: L1515823-39 Client ID: DUP Sample					
Gasoline Range Organics	ND	ND	mg/kg	NC	20

Surrogate	%Recovery Qualifier	%Recovery Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	87	96	70-130
4-Bromofluorobenzene	91	103	70-130

## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 07-18 QC Batch ID: WG804053-4 QC Sample: L1515969-07 Client ID: DP-051-SO-100-01					
Gasoline Range Organics	ND	ND	mg/kg	NC	20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	87		97		70-130
4-Bromofluorobenzene	89		104		70-130

## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 19-27,29-30 QC Batch ID: WG804058-4 QC Sample: L1515969-19 Client ID: DP-053-SO-010-01					
Gasoline Range Organics	ND	ND	mg/kg	NC	20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	86		94		70-130
4-Bromofluorobenzene	71		77		70-130

**Lab Duplicate Analysis**  
**Batch Quality Control**

**Project Name:** BUZZARD POINT

**Project Number:** 40223-002

**Lab Number:** L1515969

**Report Date:** 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 31-42 QC Batch ID: WG804060-4 QC Sample: L1515969-31 Client ID: DP-056-SO-100-01					
Gasoline Range Organics	ND	ND	mg/kg	NC	20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	85		94		70-130
4-Bromofluorobenzene	71		78		70-130

**Lab Duplicate Analysis**  
**Batch Quality Control**

**Project Name:** BUZZARD POINT

**Project Number:** 40223-002

**Lab Number:** L1515969

**Report Date:** 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 43-54 QC Batch ID: WG804061-4 QC Sample: L1515969-43 Client ID: DP-060-SO-010-01					
Gasoline Range Organics	ND	ND	mg/kg	NC	20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	88		91		70-130
4-Bromofluorobenzene	75		80		70-130



## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 55-59 QC Batch ID: WG804240-4 QC Sample: L1515969-55 Client ID: DP-063-SO-100-01					
Gasoline Range Organics	ND	ND	mg/kg	NC	20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	88		93		70-130
4-Bromofluorobenzene	94		100		70-130

**Lab Duplicate Analysis**  
**Batch Quality Control**

**Project Name:** BUZZARD POINT

**Project Number:** 40223-002

**Lab Number:** L1515969

**Report Date:** 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 28 QC Batch ID: WG804241-4 QC Sample: L1515969-28 Client ID: DP-055-SO-100-01					
Gasoline Range Organics	ND	ND	mg/kg	NC	20

Surrogate	%Recovery Qualifier	%Recovery Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95	94	70-130
4-Bromofluorobenzene	80	81	70-130

## METALS



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1515969-02  
**Client ID:** EB01-071015  
**Sample Location:** Not Specified  
**Matrix:** Water

**Date Collected:** 07/10/15 15:05  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	ND		ug/l	100	20.	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Antimony, Total	14.7	J	ug/l	50.0	8.00	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Arsenic, Total	3.70	J	ug/l	5.00	2.00	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Barium, Total	ND		ug/l	10.0	3.00	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Beryllium, Total	ND		ug/l	5.00	1.00	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		ug/l	5.00	0.700	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Calcium, Total	110		ug/l	100	30.	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Chromium, Total	2.2	J	ug/l	10.	2.0	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Cobalt, Total	ND		ug/l	20.0	5.00	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Copper, Total	15.0		ug/l	10.0	2.00	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Iron, Total	140		ug/l	50.	20.	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Lead, Total	ND		ug/l	10.0	2.00	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Magnesium, Total	15.	J	ug/l	100	10.	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Manganese, Total	2.70	J	ug/l	10.0	2.00	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Mercury, Total	ND		ug/l	0.2000	0.0660	1	07/14/15 14:15	07/14/15 20:25	EPA 7470A	1,7470A	EA
Nickel, Total	5.80	J	ug/l	25.0	4.00	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Potassium, Total	ND		ug/l	2500	400	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Selenium, Total	ND		ug/l	10.0	3.00	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Silver, Total	ND		ug/l	7.00	2.00	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Sodium, Total	ND		ug/l	2000	300	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Thallium, Total	ND		ug/l	20.0	4.00	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Vanadium, Total	ND		ug/l	10.0	1.00	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT
Zinc, Total	ND		ug/l	50.0	7.00	1	07/13/15 13:47	07/15/15 15:56	EPA 3005A	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-03  
 Client ID: EB02-071015  
 Sample Location: Not Specified  
 Matrix: Water

Date Collected: 07/10/15 15:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	ND		ug/l	100	20.	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Antimony, Total	ND		ug/l	50.0	8.00	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Arsenic, Total	3.40	J	ug/l	5.00	2.00	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Barium, Total	ND		ug/l	10.0	3.00	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Beryllium, Total	ND		ug/l	5.00	1.00	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		ug/l	5.00	0.700	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Calcium, Total	140		ug/l	100	30.	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Chromium, Total	ND		ug/l	10	2.0	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Cobalt, Total	ND		ug/l	20.0	5.00	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Copper, Total	4.00	J	ug/l	10.0	2.00	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Iron, Total	23.	J	ug/l	50.	20.	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Lead, Total	ND		ug/l	10.0	2.00	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Magnesium, Total	24.	J	ug/l	100	10.	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Manganese, Total	2.90	J	ug/l	10.0	2.00	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Mercury, Total	ND		ug/l	0.2000	0.0660	1	07/14/15 14:15	07/14/15 20:27	EPA 7470A	1,7470A	EA
Nickel, Total	ND		ug/l	25.0	4.00	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Potassium, Total	ND		ug/l	2500	400	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Selenium, Total	ND		ug/l	10.0	3.00	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Silver, Total	ND		ug/l	7.00	2.00	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Sodium, Total	310	J	ug/l	2000	300	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Thallium, Total	ND		ug/l	20.0	4.00	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Vanadium, Total	ND		ug/l	10.0	1.00	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT
Zinc, Total	ND		ug/l	50.0	7.00	1	07/13/15 13:47	07/15/15 15:37	EPA 3005A	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-15  
 Client ID: DP-047-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 87%

Date Collected: 07/10/15 08:50  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	8100		mg/kg	8.6	1.7	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.3	0.69	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Arsenic, Total	10		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Barium, Total	77		mg/kg	0.86	0.26	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Beryllium, Total	0.41	J	mg/kg	0.43	0.09	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.86	0.06	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Calcium, Total	14000		mg/kg	8.6	2.6	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Chromium, Total	13		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Cobalt, Total	5.2		mg/kg	1.7	0.43	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Copper, Total	13		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Iron, Total	13000		mg/kg	4.3	1.7	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Lead, Total	59		mg/kg	4.3	0.17	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Magnesium, Total	900		mg/kg	8.6	0.86	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Manganese, Total	240		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Mercury, Total	0.12		mg/kg	0.07	0.02	1	07/16/15 03:53	07/16/15 11:13	EPA 7471B	1,7471B	DB
Nickel, Total	7.0		mg/kg	2.2	0.34	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Potassium, Total	570		mg/kg	220	34.	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.7	0.26	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Sodium, Total	37	J	mg/kg	170	26.	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.7	0.34	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Vanadium, Total	23		mg/kg	0.86	0.09	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT
Zinc, Total	66		mg/kg	4.3	0.60	2	07/13/15 06:53	07/14/15 20:35	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-16  
 Client ID: DP-047-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 85%

Date Collected: 07/10/15 08:50  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	12000		mg/kg	9.3	1.9	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.7	0.75	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Arsenic, Total	10		mg/kg	0.93	0.19	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Barium, Total	89		mg/kg	0.93	0.28	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Beryllium, Total	0.48		mg/kg	0.47	0.09	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.93	0.07	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Calcium, Total	5000		mg/kg	9.3	2.8	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Chromium, Total	18		mg/kg	0.93	0.19	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Cobalt, Total	5.5		mg/kg	1.9	0.47	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Copper, Total	21		mg/kg	0.93	0.19	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Iron, Total	16000		mg/kg	4.7	1.9	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Lead, Total	77		mg/kg	4.7	0.19	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Magnesium, Total	1000		mg/kg	9.3	0.93	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Manganese, Total	240		mg/kg	0.93	0.19	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Mercury, Total	0.49		mg/kg	0.08	0.02	1	07/16/15 03:53	07/16/15 11:21	EPA 7471B	1,7471B	DB
Nickel, Total	8.2		mg/kg	2.3	0.37	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Potassium, Total	700		mg/kg	230	37.	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.9	0.28	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.93	0.19	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Sodium, Total	36	J	mg/kg	190	28.	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.9	0.37	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Vanadium, Total	29		mg/kg	0.93	0.09	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT
Zinc, Total	84		mg/kg	4.7	0.65	2	07/13/15 06:53	07/14/15 20:38	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-17  
 Client ID: DP-047-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 85%

Date Collected: 07/10/15 08:55  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	17000		mg/kg	9.2	1.8	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.6	0.73	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Arsenic, Total	14		mg/kg	0.92	0.18	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Barium, Total	84		mg/kg	0.92	0.28	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Beryllium, Total	0.57		mg/kg	0.46	0.09	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.92	0.06	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Calcium, Total	1800		mg/kg	9.2	2.8	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Chromium, Total	19		mg/kg	0.92	0.18	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Cobalt, Total	11		mg/kg	1.8	0.46	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Copper, Total	16		mg/kg	0.92	0.18	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Iron, Total	27000		mg/kg	4.6	1.8	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Lead, Total	2.4	J	mg/kg	4.6	0.18	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Magnesium, Total	2000		mg/kg	9.2	0.92	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Manganese, Total	520		mg/kg	0.92	0.18	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Mercury, Total	0.06	J	mg/kg	0.08	0.02	1	07/16/15 03:53	07/16/15 11:26	EPA 7471B	1,7471B	DB
Nickel, Total	15		mg/kg	2.3	0.37	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Potassium, Total	860		mg/kg	230	37.	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.8	0.28	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.92	0.18	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Sodium, Total	30	J	mg/kg	180	28.	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.8	0.37	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Vanadium, Total	33		mg/kg	0.92	0.09	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT
Zinc, Total	60		mg/kg	4.6	0.64	2	07/13/15 06:53	07/14/15 20:42	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-18  
 Client ID: DP-047-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 85%

Date Collected: 07/10/15 09:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	11000		mg/kg	8.8	1.8	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.4	0.70	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Arsenic, Total	13		mg/kg	0.88	0.18	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Barium, Total	53		mg/kg	0.88	0.26	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Beryllium, Total	0.64		mg/kg	0.44	0.09	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.88	0.06	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Calcium, Total	1800		mg/kg	8.8	2.6	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Chromium, Total	18		mg/kg	0.88	0.18	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Cobalt, Total	7.4		mg/kg	1.8	0.44	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Copper, Total	63		mg/kg	0.88	0.18	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Iron, Total	24000		mg/kg	4.4	1.8	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Lead, Total	64		mg/kg	4.4	0.18	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Magnesium, Total	720		mg/kg	8.8	0.88	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Manganese, Total	390		mg/kg	0.88	0.18	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Mercury, Total	1.3		mg/kg	0.08	0.02	1	07/16/15 03:53	07/16/15 11:28	EPA 7471B	1,7471B	DB
Nickel, Total	9.2		mg/kg	2.2	0.35	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Potassium, Total	560		mg/kg	220	35.	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.8	0.26	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.88	0.18	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Sodium, Total	100	J	mg/kg	180	26.	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.8	0.35	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Vanadium, Total	31		mg/kg	0.88	0.09	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT
Zinc, Total	86		mg/kg	4.4	0.61	2	07/13/15 06:53	07/14/15 20:46	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-19  
 Client ID: DP-053-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 92%

Date Collected: 07/10/15 10:05  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	7900		mg/kg	8.5	1.7	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.2	0.68	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Arsenic, Total	22		mg/kg	0.85	0.17	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Barium, Total	45		mg/kg	0.85	0.25	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Beryllium, Total	0.21	J	mg/kg	0.42	0.09	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Cadmium, Total	0.09	J	mg/kg	0.85	0.06	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Calcium, Total	25000		mg/kg	8.5	2.5	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Chromium, Total	21		mg/kg	0.85	0.17	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Cobalt, Total	8.4		mg/kg	1.7	0.42	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Copper, Total	43		mg/kg	0.85	0.17	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Iron, Total	20000		mg/kg	4.2	1.7	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Lead, Total	6.6		mg/kg	4.2	0.17	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Magnesium, Total	8900		mg/kg	8.5	0.85	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Manganese, Total	290		mg/kg	0.85	0.17	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Mercury, Total	0.06	J	mg/kg	0.07	0.02	1	07/16/15 03:53	07/16/15 11:30	EPA 7471B	1,7471B	DB
Nickel, Total	18		mg/kg	2.1	0.34	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Potassium, Total	1200		mg/kg	210	34.	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.7	0.25	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.85	0.17	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Sodium, Total	370		mg/kg	170	25.	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.7	0.34	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Vanadium, Total	66		mg/kg	0.85	0.09	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT
Zinc, Total	69		mg/kg	4.2	0.59	2	07/13/15 06:53	07/14/15 20:49	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-20  
 Client ID: DP-053-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 95%

Date Collected: 07/10/15 10:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	3100		mg/kg	8.1	1.6	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.1	0.65	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Arsenic, Total	7.4		mg/kg	0.81	0.16	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Barium, Total	19		mg/kg	0.81	0.24	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Beryllium, Total	0.27	J	mg/kg	0.41	0.08	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.81	0.06	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Calcium, Total	310		mg/kg	8.1	2.4	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Chromium, Total	7.5		mg/kg	0.81	0.16	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Cobalt, Total	2.5		mg/kg	1.6	0.41	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Copper, Total	5.0		mg/kg	0.81	0.16	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Iron, Total	16000		mg/kg	4.1	1.6	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Lead, Total	ND		mg/kg	4.1	0.16	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Magnesium, Total	590		mg/kg	8.1	0.81	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Manganese, Total	100		mg/kg	0.81	0.16	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Mercury, Total	ND		mg/kg	0.07	0.02	1	07/16/15 03:53	07/16/15 11:32	EPA 7471B	1,7471B	DB
Nickel, Total	5.0		mg/kg	2.0	0.32	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Potassium, Total	220		mg/kg	200	32.	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.6	0.24	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.81	0.16	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Sodium, Total	29	J	mg/kg	160	24.	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.6	0.32	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Vanadium, Total	11		mg/kg	0.81	0.08	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT
Zinc, Total	15		mg/kg	4.1	0.57	2	07/13/15 06:53	07/14/15 20:53	EPA 3050B	1,6010C	TT





**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-21  
 Client ID: DP-053-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 90%

Date Collected: 07/10/15 10:15  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	10000		mg/kg	8.6	1.7	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.3	0.69	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Arsenic, Total	8.7		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Barium, Total	84		mg/kg	0.86	0.26	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Beryllium, Total	0.68		mg/kg	0.43	0.09	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.86	0.06	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Calcium, Total	8700		mg/kg	8.6	2.6	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Chromium, Total	24		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Cobalt, Total	10		mg/kg	1.7	0.43	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Copper, Total	28		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Iron, Total	21000		mg/kg	4.3	1.7	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Lead, Total	ND		mg/kg	4.3	0.17	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Magnesium, Total	6900		mg/kg	8.6	0.86	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Manganese, Total	310		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Mercury, Total	ND		mg/kg	0.07	0.02	1	07/16/15 03:53	07/16/15 11:34	EPA 7471B	1,7471B	DB
Nickel, Total	26		mg/kg	2.2	0.34	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Potassium, Total	5100		mg/kg	220	34.	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.7	0.26	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Sodium, Total	180		mg/kg	170	26.	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.7	0.34	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Vanadium, Total	28		mg/kg	0.86	0.09	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT
Zinc, Total	61		mg/kg	4.3	0.60	2	07/13/15 06:53	07/14/15 20:57	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-22  
 Client ID: DP-054-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 89%

Date Collected: 07/10/15 10:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	7400		mg/kg	8.9	1.8	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.4	0.71	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Arsenic, Total	7.4		mg/kg	0.89	0.18	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Barium, Total	70		mg/kg	0.89	0.27	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Beryllium, Total	0.33	J	mg/kg	0.44	0.09	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Cadmium, Total	0.07	J	mg/kg	0.89	0.06	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Calcium, Total	75000		mg/kg	8.9	2.7	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Chromium, Total	26		mg/kg	0.89	0.18	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Cobalt, Total	5.8		mg/kg	1.8	0.44	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Copper, Total	16		mg/kg	0.89	0.18	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Iron, Total	12000		mg/kg	4.4	1.8	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Lead, Total	14		mg/kg	4.4	0.18	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Magnesium, Total	8900		mg/kg	8.9	0.89	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Manganese, Total	320		mg/kg	0.89	0.18	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Mercury, Total	0.04	J	mg/kg	0.08	0.02	1	07/16/15 03:53	07/16/15 11:35	EPA 7471B	1,7471B	DB
Nickel, Total	30		mg/kg	2.2	0.36	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Potassium, Total	920		mg/kg	220	36.	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.8	0.27	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.89	0.18	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Sodium, Total	500		mg/kg	180	27.	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.8	0.36	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Vanadium, Total	34		mg/kg	0.89	0.09	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT
Zinc, Total	44		mg/kg	4.4	0.62	2	07/13/15 06:53	07/14/15 21:31	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-23  
 Client ID: DP-054-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 91%

Date Collected: 07/10/15 10:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	3400		mg/kg	8.6	1.7	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.3	0.68	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Arsenic, Total	3.7		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Barium, Total	22		mg/kg	0.86	0.26	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Beryllium, Total	0.17	J	mg/kg	0.43	0.09	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Cadmium, Total	0.09	J	mg/kg	0.86	0.06	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Calcium, Total	1900		mg/kg	8.6	2.6	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Chromium, Total	12		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Cobalt, Total	4.0		mg/kg	1.7	0.43	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Copper, Total	6.2		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Iron, Total	6100		mg/kg	4.3	1.7	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Lead, Total	10		mg/kg	4.3	0.17	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Magnesium, Total	1100		mg/kg	8.6	0.86	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Manganese, Total	92		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Mercury, Total	0.03	J	mg/kg	0.07	0.02	1	07/16/15 03:53	07/16/15 11:37	EPA 7471B	1,7471B	DB
Nickel, Total	6.8		mg/kg	2.1	0.34	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Potassium, Total	560		mg/kg	210	34.	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.7	0.26	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.86	0.17	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Sodium, Total	77	J	mg/kg	170	26.	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.7	0.34	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Vanadium, Total	11		mg/kg	0.86	0.09	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT
Zinc, Total	26		mg/kg	4.3	0.60	2	07/13/15 06:53	07/14/15 21:34	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-24  
 Client ID: DP-054-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 85%

Date Collected: 07/10/15 10:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	7600		mg/kg	9.2	1.8	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.6	0.74	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Arsenic, Total	9.0		mg/kg	0.92	0.18	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Barium, Total	73		mg/kg	0.92	0.28	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Beryllium, Total	0.54		mg/kg	0.46	0.09	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Cadmium, Total	0.18	J	mg/kg	0.92	0.07	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Calcium, Total	9800		mg/kg	9.2	2.8	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Chromium, Total	13		mg/kg	0.92	0.18	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Cobalt, Total	7.2		mg/kg	1.8	0.46	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Copper, Total	19		mg/kg	0.92	0.18	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Iron, Total	13000		mg/kg	4.6	1.8	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Lead, Total	140		mg/kg	4.6	0.18	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Magnesium, Total	980		mg/kg	9.2	0.92	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Manganese, Total	210		mg/kg	0.92	0.18	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Mercury, Total	0.60		mg/kg	0.08	0.02	1	07/16/15 03:53	07/16/15 11:39	EPA 7471B	1,7471B	DB
Nickel, Total	11		mg/kg	2.3	0.37	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Potassium, Total	660		mg/kg	230	37.	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.8	0.28	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.92	0.18	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Sodium, Total	130	J	mg/kg	180	28.	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.8	0.37	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Vanadium, Total	20		mg/kg	0.92	0.09	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT
Zinc, Total	120		mg/kg	4.6	0.65	2	07/13/15 06:53	07/14/15 21:38	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-25  
 Client ID: DP-054-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 86%

Date Collected: 07/10/15 10:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	6800		mg/kg	9.0	1.8	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.5	0.72	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Arsenic, Total	9.8		mg/kg	0.90	0.18	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Barium, Total	78		mg/kg	0.90	0.27	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Beryllium, Total	0.55		mg/kg	0.45	0.09	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Cadmium, Total	0.23	J	mg/kg	0.90	0.06	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Calcium, Total	2300		mg/kg	9.0	2.7	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Chromium, Total	15		mg/kg	0.90	0.18	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Cobalt, Total	8.0		mg/kg	1.8	0.45	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Copper, Total	22		mg/kg	0.90	0.18	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Iron, Total	14000		mg/kg	4.5	1.8	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Lead, Total	110		mg/kg	4.5	0.18	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Magnesium, Total	920		mg/kg	9.0	0.90	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Manganese, Total	210		mg/kg	0.90	0.18	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Mercury, Total	0.63		mg/kg	0.08	0.02	1	07/16/15 03:53	07/16/15 11:41	EPA 7471B	1,7471B	DB
Nickel, Total	11		mg/kg	2.2	0.36	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Potassium, Total	660		mg/kg	220	36.	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.8	0.27	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.90	0.18	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Sodium, Total	69	J	mg/kg	180	27.	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.8	0.36	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Vanadium, Total	21		mg/kg	0.90	0.09	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT
Zinc, Total	140		mg/kg	4.5	0.63	2	07/13/15 06:53	07/14/15 21:42	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-26  
 Client ID: DP-055-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 85%

Date Collected: 07/10/15 10:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	8000		mg/kg	9.1	1.8	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.5	0.73	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Arsenic, Total	11		mg/kg	0.91	0.18	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Barium, Total	28		mg/kg	0.91	0.27	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Beryllium, Total	0.51		mg/kg	0.45	0.09	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.91	0.06	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Calcium, Total	1000		mg/kg	9.1	2.7	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Chromium, Total	15		mg/kg	0.91	0.18	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Cobalt, Total	2.5		mg/kg	1.8	0.45	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Copper, Total	10		mg/kg	0.91	0.18	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Iron, Total	24000		mg/kg	4.5	1.8	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Lead, Total	ND		mg/kg	4.5	0.18	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Magnesium, Total	610		mg/kg	9.1	0.91	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Manganese, Total	80		mg/kg	0.91	0.18	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Mercury, Total	0.02	J	mg/kg	0.08	0.02	1	07/16/15 03:53	07/16/15 11:42	EPA 7471B	1,7471B	DB
Nickel, Total	4.8		mg/kg	2.3	0.36	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Potassium, Total	380		mg/kg	230	36.	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.8	0.27	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.91	0.18	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Sodium, Total	74	J	mg/kg	180	27.	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.8	0.36	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Vanadium, Total	29		mg/kg	0.91	0.09	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT
Zinc, Total	22		mg/kg	4.5	0.64	2	07/13/15 06:53	07/14/15 21:45	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-27  
 Client ID: DP-055-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 89%

Date Collected: 07/10/15 10:40  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	8800		mg/kg	8.7	1.7	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.3	0.69	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Arsenic, Total	9.8		mg/kg	0.87	0.17	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Barium, Total	63		mg/kg	0.87	0.26	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Beryllium, Total	0.50		mg/kg	0.43	0.09	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.87	0.06	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Calcium, Total	2200		mg/kg	8.7	2.6	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Chromium, Total	23		mg/kg	0.87	0.17	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Cobalt, Total	5.4		mg/kg	1.7	0.43	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Copper, Total	12		mg/kg	0.87	0.17	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Iron, Total	19000		mg/kg	4.3	1.7	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Lead, Total	82		mg/kg	4.3	0.17	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Magnesium, Total	850		mg/kg	8.7	0.87	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Manganese, Total	130		mg/kg	0.87	0.17	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Mercury, Total	0.06	J	mg/kg	0.07	0.02	1	07/16/15 03:53	07/16/15 11:48	EPA 7471B	1,7471B	DB
Nickel, Total	6.6		mg/kg	2.2	0.35	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Potassium, Total	660		mg/kg	220	35.	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.7	0.26	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.87	0.17	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Sodium, Total	120	J	mg/kg	170	26.	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.7	0.35	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Vanadium, Total	32		mg/kg	0.87	0.09	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT
Zinc, Total	44		mg/kg	4.3	0.61	2	07/13/15 06:53	07/14/15 21:49	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-28  
 Client ID: DP-055-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 83%

Date Collected: 07/10/15 10:45  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	8100		mg/kg	9.3	1.9	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.6	0.74	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Arsenic, Total	9.1		mg/kg	0.93	0.19	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Barium, Total	72		mg/kg	0.93	0.28	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Beryllium, Total	0.60		mg/kg	0.46	0.09	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.93	0.07	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Calcium, Total	1600		mg/kg	9.3	2.8	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Chromium, Total	15		mg/kg	0.93	0.19	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Cobalt, Total	15		mg/kg	1.9	0.46	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Copper, Total	17		mg/kg	0.93	0.19	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Iron, Total	13000		mg/kg	4.6	1.9	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Lead, Total	53		mg/kg	4.6	0.19	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Magnesium, Total	1000		mg/kg	9.3	0.93	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Manganese, Total	310		mg/kg	0.93	0.19	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Mercury, Total	0.87		mg/kg	0.08	0.02	1	07/16/15 03:53	07/16/15 11:50	EPA 7471B	1,7471B	DB
Nickel, Total	10		mg/kg	2.3	0.37	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Potassium, Total	660		mg/kg	230	37.	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.9	0.28	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.93	0.19	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Sodium, Total	110	J	mg/kg	190	28.	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.9	0.37	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Vanadium, Total	21		mg/kg	0.93	0.09	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT
Zinc, Total	61		mg/kg	4.6	0.65	2	07/13/15 06:53	07/14/15 21:53	EPA 3050B	1,6010C	TT





**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 15-28 Batch: WG801994-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Antimony, Total	ND		mg/kg	2.0	0.32	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Arsenic, Total	ND		mg/kg	0.40	0.08	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Barium, Total	ND		mg/kg	0.40	0.12	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Beryllium, Total	ND		mg/kg	0.20	0.04	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.40	0.03	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Calcium, Total	ND		mg/kg	4.0	1.2	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Chromium, Total	ND		mg/kg	0.40	0.08	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Cobalt, Total	ND		mg/kg	0.80	0.20	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Copper, Total	0.10	J	mg/kg	0.40	0.08	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Iron, Total	ND		mg/kg	2.0	0.80	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Lead, Total	ND		mg/kg	2.0	0.08	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Magnesium, Total	ND		mg/kg	4.0	0.40	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Manganese, Total	ND		mg/kg	0.40	0.08	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Nickel, Total	ND		mg/kg	1.0	0.16	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Potassium, Total	ND		mg/kg	100	16.	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Selenium, Total	ND		mg/kg	0.80	0.12	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Silver, Total	ND		mg/kg	0.40	0.08	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Sodium, Total	ND		mg/kg	80	12.	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Thallium, Total	ND		mg/kg	0.80	0.16	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Vanadium, Total	ND		mg/kg	0.40	0.04	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT
Zinc, Total	ND		mg/kg	2.0	0.28	1	07/13/15 06:53	07/14/15 19:46	1,6010C	TT

### Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-03 Batch: WG802007-1										
Aluminum, Total	ND		ug/l	100	20.	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Antimony, Total	ND		ug/l	50.0	8.00	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Arsenic, Total	2.40	J	ug/l	5.00	2.00	1	07/13/15 13:47	07/15/15 13:41	1,6010C	TT
Barium, Total	ND		ug/l	10.0	3.00	1	07/13/15 13:47	07/15/15 11:14	1,6010C	MC



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

### Method Blank Analysis Batch Quality Control

Beryllium, Total	ND	ug/l	5.00	1.00	1	07/13/15 13:47	07/15/15 11:14	1,6010C	MC
Cadmium, Total	ND	ug/l	5.00	0.700	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Calcium, Total	ND	ug/l	100	30.	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Chromium, Total	ND	ug/l	10	2.0	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Cobalt, Total	ND	ug/l	20.0	5.00	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Copper, Total	ND	ug/l	10.0	2.00	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Iron, Total	ND	ug/l	50	20.	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Lead, Total	ND	ug/l	10.0	2.00	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Magnesium, Total	ND	ug/l	100	10.	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Manganese, Total	ND	ug/l	10.0	2.00	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Nickel, Total	ND	ug/l	25.0	4.00	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Potassium, Total	ND	ug/l	2500	400	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Selenium, Total	ND	ug/l	10.0	3.00	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Silver, Total	ND	ug/l	7.00	2.00	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Sodium, Total	ND	ug/l	2000	300	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Thallium, Total	ND	ug/l	20.0	4.00	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Vanadium, Total	ND	ug/l	10.0	1.00	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC
Zinc, Total	ND	ug/l	50.0	7.00	1	07/13/15 13:47	07/14/15 23:34	1,6010C	MC

#### Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-03 Batch: WG802559-1									
Mercury, Total	ND	ug/l	0.2000	0.0660	1	07/14/15 14:15	07/14/15 20:12	1,7470A	EA

#### Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 15-28 Batch: WG803151-1									
Mercury, Total	ND	mg/kg	0.08	0.02	1	07/16/15 03:53	07/16/15 11:04	1,7471B	DB



**Project Name:** BUZZARD POINT

**Lab Number:** L1515969

**Project Number:** 40223-002

**Report Date:** 07/20/15

## Method Blank Analysis Batch Quality Control

### Prep Information

---

Digestion Method: EPA 7471B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Westborough Lab Associated sample(s): 15-28 Batch: WG801994-2 SRM Lot Number: D088-540								
Aluminum, Total	98		-		48-151	-		
Antimony, Total	187		-		1-208	-		
Arsenic, Total	114		-		79-121	-		
Barium, Total	99		-		83-117	-		
Beryllium, Total	106		-		83-117	-		
Cadmium, Total	103		-		83-117	-		
Calcium, Total	98		-		81-119	-		
Chromium, Total	101		-		80-120	-		
Cobalt, Total	102		-		84-115	-		
Copper, Total	106		-		81-118	-		
Iron, Total	116		-		45-155	-		
Lead, Total	90		-		81-117	-		
Magnesium, Total	94		-		76-124	-		
Manganese, Total	101		-		81-118	-		
Nickel, Total	102		-		83-117	-		
Potassium, Total	100		-		71-129	-		
Selenium, Total	108		-		78-122	-		
Silver, Total	105		-		75-124	-		
Sodium, Total	99		-		72-127	-		
Thallium, Total	105		-		80-120	-		
Vanadium, Total	107		-		78-122	-		

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT

**Project Number:** 40223-002

**Lab Number:** L1515969

**Report Date:** 07/20/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 15-28 Batch: WG801994-2 SRM Lot Number: D088-540					
Zinc, Total	106	-	82-118	-	

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-03 Batch: WG802007-2					
Aluminum, Total	110	-	80-120	-	
Antimony, Total	86	-	80-120	-	
Arsenic, Total	117	-	80-120	-	
Barium, Total	106	-	80-120	-	
Beryllium, Total	111	-	80-120	-	
Cadmium, Total	116	-	80-120	-	
Calcium, Total	110	-	80-120	-	
Chromium, Total	110	-	80-120	-	
Cobalt, Total	105	-	80-120	-	
Copper, Total	107	-	80-120	-	
Iron, Total	110	-	80-120	-	
Lead, Total	107	-	80-120	-	
Magnesium, Total	100	-	80-120	-	
Manganese, Total	113	-	80-120	-	
Nickel, Total	113	-	80-120	-	
Potassium, Total	110	-	80-120	-	
Selenium, Total	110	-	80-120	-	
Silver, Total	100	-	80-120	-	
Sodium, Total	110	-	80-120	-	
Thallium, Total	112	-	80-120	-	
Vanadium, Total	113	-	80-120	-	

## Lab Control Sample Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-03 Batch: WG802007-2					
Zinc, Total	102	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 02-03 Batch: WG802559-2					
Mercury, Total	104	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 15-28 Batch: WG803151-2 SRM Lot Number: D088-540					
Mercury, Total	107	-	72-128	-	

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 15-28    QC Batch ID: WG801994-4    QC Sample: L1515374-08    Client ID: MS Sample												
Aluminum, Total	15000	324	19000	1230	Q	-	-		75-125	-		20
Antimony, Total	ND	81.1	68	84		-	-		75-125	-		20
Arsenic, Total	23.	19.5	46	118		-	-		75-125	-		20
Barium, Total	240	324	600	111		-	-		75-125	-		20
Beryllium, Total	0.84	8.11	9.6	108		-	-		75-125	-		20
Cadmium, Total	1.2J	8.27	10	121		-	-		75-125	-		20
Calcium, Total	6700	1620	9000	142	Q	-	-		75-125	-		20
Chromium, Total	22.	32.4	57	108		-	-		75-125	-		20
Cobalt, Total	12.	81.1	95	102		-	-		75-125	-		20
Copper, Total	33.	40.5	80	116		-	-		75-125	-		20
Iron, Total	43000	162	46000	1850	Q	-	-		75-125	-		20
Lead, Total	46.	82.7	130	102		-	-		75-125	-		20
Magnesium, Total	2800	1620	4600	111		-	-		75-125	-		20
Manganese, Total	300	81.1	400	123		-	-		75-125	-		20
Nickel, Total	29.	81.1	110	100		-	-		75-125	-		20
Potassium, Total	1100	1620	3000	117		-	-		75-125	-		20
Selenium, Total	ND	19.5	20	103		-	-		75-125	-		20
Silver, Total	ND	48.6	49	101		-	-		75-125	-		20
Sodium, Total	ND	1620	1700	105		-	-		75-125	-		20
Thallium, Total	ND	19.5	20	103		-	-		75-125	-		20
Vanadium, Total	33.	81.1	120	107		-	-		75-125	-		20



**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>RPD Limits</b>
Total Metals - Westborough Lab Associated sample(s): 15-28 QC Batch ID: WG801994-4 QC Sample: L1515374-08 Client ID: MS Sample									
Zinc, Total	220	81.1	340	148	Q	-	75-125	-	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-03    QC Batch ID: WG802007-4    QC Sample: L1515969-03    Client ID: EB02-071015									
Aluminum, Total	ND	2000	2500	125	-	-	75-125	-	20
Antimony, Total	ND	500	482	96	-	-	75-125	-	20
Arsenic, Total	3.40J	120	154	128	Q	-	75-125	-	20
Barium, Total	ND	2000	2300	115	-	-	75-125	-	20
Beryllium, Total	ND	50	58.0	116	-	-	75-125	-	20
Cadmium, Total	ND	51	65.3	128	Q	-	75-125	-	20
Calcium, Total	140	10000	12000	119	-	-	75-125	-	20
Chromium, Total	ND	200	230	115	-	-	75-125	-	20
Cobalt, Total	ND	500	575	115	-	-	75-125	-	20
Copper, Total	4.00J	250	297	119	-	-	75-125	-	20
Iron, Total	23.J	1000	1200	120	-	-	75-125	-	20
Lead, Total	ND	510	630	124	-	-	75-125	-	20
Magnesium, Total	24.J	10000	12000	120	-	-	75-125	-	20
Manganese, Total	2.90J	500	574	115	-	-	75-125	-	20
Nickel, Total	ND	500	578	116	-	-	75-125	-	20
Potassium, Total	ND	10000	12000	120	-	-	75-125	-	20
Selenium, Total	ND	120	156	130	Q	-	75-125	-	20
Silver, Total	ND	50	60.0	120	-	-	75-125	-	20
Sodium, Total	310J	10000	12000	120	-	-	75-125	-	20
Thallium, Total	ND	120	144	120	-	-	75-125	-	20
Vanadium, Total	ND	500	599	120	-	-	75-125	-	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG802007-4 QC Sample: L1515969-03 Client ID: EB02-071015									
Zinc, Total	ND	500	579	116	-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG802559-4 QC Sample: L1516031-08 Client ID: MS Sample									
Mercury, Total	ND	5	4.929	98	-	-	80-120	-	20
Total Metals - Westborough Lab Associated sample(s): 15-28 QC Batch ID: WG803151-4 QC Sample: L1515969-15 Client ID: DP-047-SO-010-01									
Mercury, Total	0.12	0.152	0.33	138	Q	-	80-120	-	20

## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 15-28 QC Batch ID: WG801994-3 QC Sample: L1515374-08 Client ID: DUP Sample						
Aluminum, Total	15000	15000	mg/kg	0		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	23.	21	mg/kg	9		20
Barium, Total	240	230	mg/kg	4		20
Beryllium, Total	0.84	0.81	mg/kg	4		20
Cadmium, Total	1.2J	1.4J	mg/kg	NC		20
Calcium, Total	6700	6700	mg/kg	0		20
Chromium, Total	22.	22	mg/kg	0		20
Cobalt, Total	12.	12	mg/kg	0		20
Copper, Total	33.	34	mg/kg	3		20
Iron, Total	43000	39000	mg/kg	10		20
Lead, Total	46.	51	mg/kg	10		20
Magnesium, Total	2800	2800	mg/kg	0		20
Manganese, Total	300	260	mg/kg	14		20
Nickel, Total	29.	30	mg/kg	3		20
Potassium, Total	1100	1100	mg/kg	0		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	ND	ND	mg/kg	NC		20

## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 15-28 QC Batch ID: WG801994-3 QC Sample: L1515374-08 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	33.	33	mg/kg	0	20
Zinc, Total	220	220	mg/kg	0	20

## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG802007-3 QC Sample: L1515969-03 Client ID: EB02-071015					
Aluminum, Total	ND	ND	ug/l	NC	20
Antimony, Total	ND	ND	ug/l	NC	20
Arsenic, Total	3.40J	2.80J	ug/l	NC	20
Barium, Total	ND	ND	ug/l	NC	20
Beryllium, Total	ND	ND	ug/l	NC	20
Cadmium, Total	ND	ND	ug/l	NC	20
Calcium, Total	140	150	ug/l	7	20
Chromium, Total	ND	ND	ug/l	NC	20
Cobalt, Total	ND	ND	ug/l	NC	20
Copper, Total	4.00J	3.70J	ug/l	NC	20
Iron, Total	23.J	25.J	ug/l	NC	20
Lead, Total	ND	ND	ug/l	NC	20
Magnesium, Total	24.J	19.J	ug/l	NC	20
Manganese, Total	2.90J	2.40J	ug/l	NC	20
Nickel, Total	ND	ND	ug/l	NC	20
Potassium, Total	ND	ND	ug/l	NC	20
Selenium, Total	ND	ND	ug/l	NC	20
Silver, Total	ND	ND	ug/l	NC	20
Sodium, Total	310J	320J	ug/l	NC	20

## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Total Metals - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG802007-3 QC Sample: L1515969-03 Client ID: EB02-071015</b>					
Thallium, Total	ND	ND	ug/l	NC	20
Vanadium, Total	ND	ND	ug/l	NC	20
Zinc, Total	ND	ND	ug/l	NC	20
<b>Total Metals - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG802559-3 QC Sample: L1516031-08 Client ID: DUP Sample</b>					
Mercury, Total	ND	ND	ug/l	NC	20
<b>Total Metals - Westborough Lab Associated sample(s): 15-28 QC Batch ID: WG803151-3 QC Sample: L1515969-15 Client ID: DP-047-SO-010-01</b>					
Mercury, Total	0.12	0.56	mg/kg	129 Q	20

# **INORGANICS & MISCELLANEOUS**



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-04  
 Client ID: DP-050-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 08:15  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-05  
 Client ID: DP-050-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 08:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-06  
 Client ID: DP-051-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 08:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1515969-07  
**Client ID:** DP-051-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/10/15 08:44  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.1		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-08  
 Client ID: DP-051-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 08:44  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.0		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-09  
 Client ID: DP-048-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 09:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-10  
 Client ID: DP-048-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 09:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-11  
 Client ID: DP-049-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 09:17  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB





Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-12  
 Client ID: DP-049-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 09:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.3		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-13  
 Client ID: DP-052-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 09:40  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.5		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-14  
 Client ID: DP-052-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 09:45  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.0		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-15  
 Client ID: DP-047-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 08:50  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.7		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-16  
 Client ID: DP-047-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 08:50  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-17  
 Client ID: DP-047-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 08:55  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.6		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-18  
 Client ID: DP-047-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 09:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.7		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-19  
 Client ID: DP-053-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 10:05  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB





Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-20  
 Client ID: DP-053-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 10:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.0		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-21  
 Client ID: DP-053-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 10:15  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-22  
 Client ID: DP-054-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 10:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.8		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-23  
 Client ID: DP-054-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 10:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.4		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-24  
 Client ID: DP-054-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 10:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-25  
 Client ID: DP-054-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 10:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-26  
 Client ID: DP-055-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 10:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-27  
 Client ID: DP-055-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 10:40  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB





Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-28  
 Client ID: DP-055-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 10:45  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-29  
 Client ID: DP-056-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 12:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.1		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-30  
 Client ID: DP-056-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 12:13  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-31  
 Client ID: DP-056-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 12:15  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1515969-32  
**Client ID:** DP-057-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/10/15 12:20  
**Date Received:** 07/10/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.1		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-33  
 Client ID: DP-057-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 12:22  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.3		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-34  
 Client ID: DP-057-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 12:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-35  
 Client ID: DP-057-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 12:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB





Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-36  
 Client ID: DP-058-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 12:55  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.1		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-37  
 Client ID: DP-058-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 13:00  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-38  
 Client ID: DP-058-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 13:05  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.7		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-39  
 Client ID: DP-059-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 13:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-40  
 Client ID: DP-059-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 13:20  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	07/15/15 03:02	30,2540G	RT



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-41  
 Client ID: DP-059-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 13:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-42  
 Client ID: DP-059-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 13:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.7		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-43  
 Client ID: DP-060-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 13:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB





Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-44  
 Client ID: DP-060-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 13:40  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.0		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-45  
 Client ID: DP-060-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 13:45  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-46  
 Client ID: DP-061-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:05  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-47  
 Client ID: DP-061-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-48  
 Client ID: DP-061-SO-050-02  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-49  
 Client ID: DP-061-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:15  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.2		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-50  
 Client ID: DP-062-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:25  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-51  
 Client ID: DP-062-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:30  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.6		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB





Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1515969-52  
 Client ID: DP-062-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:35  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.5		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-53  
 Client ID: DP-063-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:45  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-54  
 Client ID: DP-063-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:47  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-55  
 Client ID: DP-063-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:50  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.0		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-56  
 Client ID: DP-064-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:52  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-57  
 Client ID: DP-064-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:55  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.2		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-58  
 Client ID: DP-064-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:58  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.3		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1515969

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1515969-59  
 Client ID: DP-064-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:58  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB





## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 04-23 QC Batch ID: WG802123-1 QC Sample: L1515969-04 Client ID: DP-050-SO-050-01						
Solids, Total	87.8	87.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 24-39,41-44 QC Batch ID: WG802152-1 QC Sample: L1515969-24 Client ID: DP-054-SO-100-01						
Solids, Total	84.5	84.5	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 45-59 QC Batch ID: WG802189-1 QC Sample: L1515969-45 Client ID: DP-060-SO-100-01						
Solids, Total	82.3	82.3	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 40 QC Batch ID: WG802724-1 QC Sample: L1515875-01 Client ID: DUP Sample						
Solids, Total	95.0	94.0	%	1		20

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

#### Cooler Information Custody Seal

##### Cooler

A	Absent
D	Absent
B	Absent
C	Absent
E	Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1515969-01A	Vial HCl preserved	D	N/A	3.0	Y	Absent	PA-8260(14)
L1515969-01B	Vial HCl preserved	D	N/A	3.0	Y	Absent	PA-8260(14)
L1515969-02A	Vial HCl preserved	D	N/A	3.0	Y	Absent	PA-8260(14)
L1515969-02B	Vial HCl preserved	D	N/A	3.0	Y	Absent	PA-TPH-GRO(14),PA-8260(14)
L1515969-02C	Vial HCl preserved	D	N/A	3.0	Y	Absent	PA-TPH-GRO(14),PA-8260(14)
L1515969-02D	Plastic 250ml HNO3 preserved	D	<2	3.0	Y	Absent	CU-TI-PPB(180),CA-TI-PPB(180),HG-T-PPB(28),AL-TI-PPB(180),AS-TI-PPB(180),BA-TI-PPB(180),CO-TI-PPB(180),MG-TI-PPB(180),SE-TI-PPB(180),CD-TI-PPB(180),V-TI-PPB(180),K-TI-PPB(180),NA-TI-PPB(180),SB-TI-PPB(180),ZN-TI-PPB(180),AG-TI-PPB(180),FE-TI-PPB(180),PB-TI-PPB(180),TL-TI-PPB(180),BE-TI-PPB(180),CR-TI-PPB(180),MN-TI-PPB(180),NI-TI-PPB(180)
L1515969-02E	Amber 1000ml unpreserved	D	7	3.0	Y	Absent	PA-TPH-DROD-C44(7)
L1515969-02F	Amber 1000ml unpreserved	D	7	3.0	Y	Absent	PA-8270(7)
L1515969-03A	Vial HCl preserved	D	N/A	3.0	Y	Absent	PA-8260(14)
L1515969-03B	Vial HCl preserved	D	N/A	3.0	Y	Absent	PA-TPH-GRO(14),PA-8260(14)
L1515969-03C	Vial HCl preserved	D	N/A	3.0	Y	Absent	PA-TPH-GRO(14),PA-8260(14)

\*Values in parentheses indicate holding time in days

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1515969-03D	Plastic 250ml HNO3 preserved	D	<2	3.0	Y	Absent	CU-TI-PPB(180),CA-TI-PPB(180),HG-T-PPB(28),AL-TI-PPB(180),AS-TI-PPB(180),BA-TI-PPB(180),CO-TI-PPB(180),MG-TI-PPB(180),SE-TI-PPB(180),CD-TI-PPB(180),V-TI-PPB(180),K-TI-PPB(180),NA-TI-PPB(180),SB-TI-PPB(180),ZN-TI-PPB(180),AG-TI-PPB(180),FE-TI-PPB(180),PB-TI-PPB(180),TL-TI-PPB(180),BE-TI-PPB(180),CR-TI-PPB(180),MN-TI-PPB(180),NI-TI-PPB(180)
L1515969-03E	Amber 1000ml unpreserved	D	7	3.0	Y	Absent	PA-TPH-DROD-C44(7)
L1515969-03F	Amber 1000ml unpreserved	D	7	3.0	Y	Absent	PA-8270(7)
L1515969-03G	Amber 1000ml unpreserved	D	7	3.0	Y	Absent	PA-8270(7)
L1515969-04A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1515969-04B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-04X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-05A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1515969-05B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-05X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-06A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1515969-06B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-06X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-07A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1515969-07B	Vial Large Septa unpreserved (4o	E	N/A	2.3	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-07X	Vial MeOH preserved split	E	N/A	2.3	Y	Absent	PA-TPH-GRO(14)
L1515969-08A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14),TS(7),PA-TPH-DROD-C44(14)
L1515969-08X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-09A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1515969-09B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-09X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-10A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1515969-10B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-10X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)

\*Values in parentheses indicate holding time in days



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1515969-11A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1515969-11B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-11X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-12A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1515969-12B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-12X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-13A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1515969-13B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-13X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-14A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1515969-14B	Vial Large Septa unpreserved (4o	E	N/A	2.3	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-14X	Vial MeOH preserved split	E	N/A	2.3	Y	Absent	PA-TPH-GRO(14)
L1515969-15A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180),PA-8270(14)
L1515969-15B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-15X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-16A	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180),PA-8270(14)
L1515969-16B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-16X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)

\*Values in parentheses indicate holding time in days

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1515969-17A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180),PA-8270(14)
L1515969-17B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-17X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-18A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180),PA-8270(14)
L1515969-18B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-18X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-19A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180),PA-8270(14)
L1515969-19B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-19X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)

\*Values in parentheses indicate holding time in days



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1515969-20A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180),PA-8270(14)
L1515969-20B	Vial Large Septa unpreserved (4o	E	N/A	2.3	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-20X	Vial MeOH preserved split	E	N/A	2.3	Y	Absent	PA-TPH-GRO(14)
L1515969-21A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180),PA-8270(14)
L1515969-21B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-21X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-22A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180),PA-8270(14)
L1515969-22B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-22X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)

\*Values in parentheses indicate holding time in days



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1515969-23A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180),PA-8270(14)
L1515969-23B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-23X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-24A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180),PA-8270(14)
L1515969-24B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-24X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-25A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),PA-TPH-GRO(14),AG-TI(180),HOLD-8260(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180),PA-8270(14)
L1515969-25X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)

\*Values in parentheses indicate holding time in days



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1515969-26A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180),PA-8270(14)
L1515969-26B	Vial Large Septa unpreserved (4o	E	N/A	2.3	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-26X	Vial MeOH preserved split	E	N/A	2.3	Y	Absent	PA-TPH-GRO(14)
L1515969-27A	Glass 250ml/8oz unpreserved	D	N/A	3.0	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180),PA-8270(14)
L1515969-27B	Vial Large Septa unpreserved (4o	E	N/A	2.3	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-27X	Vial MeOH preserved split	E	N/A	2.3	Y	Absent	PA-TPH-GRO(14)
L1515969-28A	Glass 250ml/8oz unpreserved	D	N/A	3.0	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180),PA-8270(14)
L1515969-28B	Vial Large Septa unpreserved (4o	D	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-28X	Vial MeOH preserved split	D	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1515969-29A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-29B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-29X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-30A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)

\*Values in parentheses indicate holding time in days





Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1515969-30B	Vial Large Septa unpreserved (4o	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-30X	Vial MeOH preserved split	A	N/A	3.7	Y	Absent	PA-TPH-GRO(14)
L1515969-31A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-31B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-31X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-32A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-32B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-32X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-33A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-33B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-33X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-34A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-34B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-34X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-35A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14),TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-35X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-36A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-36B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-36X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-37A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-37B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-37X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-38A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-38B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-38X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-39A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-39B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-39X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)

\*Values in parentheses indicate holding time in days

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1515969-40A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14),TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-40X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-41A	Glass 250ml/8oz unpreserved	D	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-41B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-41X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-42A	Glass 250ml/8oz unpreserved	D	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-42B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-42X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-43A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-43B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-43X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-44A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-44B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-44X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-45A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-45B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-45X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-46A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-46B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-46X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-47A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-47B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-47X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-48A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14),TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-48X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-49A	Glass 250ml/8oz unpreserved	E	N/A	2.3	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-49B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)

\*Values in parentheses indicate holding time in days



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1515969-49X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-50A	Glass 250ml/8oz unpreserved	C	N/A	2.8	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-50B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-50X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-51A	Glass 250ml/8oz unpreserved	B	N/A	2.9	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-51B	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-51X	Vial MeOH preserved split	C	N/A	2.8	Y	Absent	PA-TPH-GRO(14)
L1515969-52A	Glass 250ml/8oz unpreserved	B	N/A	2.9	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-52B	Vial Large Septa unpreserved (4o	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-52X	Vial MeOH preserved split	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14)
L1515969-53A	Glass 250ml/8oz unpreserved	B	N/A	2.9	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-53B	Vial Large Septa unpreserved (4o	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-53X	Vial MeOH preserved split	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14)
L1515969-54A	Glass 250ml/8oz unpreserved	B	N/A	2.9	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-54B	Vial Large Septa unpreserved (4o	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-54X	Vial MeOH preserved split	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14)
L1515969-55A	Glass 250ml/8oz unpreserved	B	N/A	2.9	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-55B	Vial Large Septa unpreserved (4o	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-55X	Vial MeOH preserved split	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14)
L1515969-56A	Vial Large Septa unpreserved (4o	B	N/A	2.9	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-56A1	Glass 250ml/8oz unpreserved	B	N/A	2.9	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-56B	Vial Large Septa unpreserved (4o	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-56X	Vial MeOH preserved split	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14)
L1515969-57A	Vial Large Septa unpreserved (4o	B	N/A	2.9	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-57A1	Glass 250ml/8oz unpreserved	B	N/A	2.9	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-57B	Vial Large Septa unpreserved (4o	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-57X	Vial MeOH preserved split	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14)
L1515969-58A	Glass 250ml/8oz unpreserved	B	N/A	2.9	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)

\*Values in parentheses indicate holding time in days



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1515969

Report Date: 07/20/15

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1515969-58A1	Glass 250ml/8oz unpreserved	B	N/A	2.9	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-58B	Vial Large Septa unpreserved (4o	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-58X	Vial MeOH preserved split	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14)
L1515969-59A	Glass 250ml/8oz unpreserved	B	N/A	2.9	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1515969-59B	Vial Large Septa unpreserved (4o	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1515969-59X	Vial MeOH preserved split	B	N/A	2.9	Y	Absent	PA-TPH-GRO(14)

\*Values in parentheses indicate holding time in days

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

#### Data Qualifiers

- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1515969  
**Report Date:** 07/20/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

Last revised December 16, 2014

**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:**

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.





WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

# CHAIN OF CUSTODY

PAGE 1 OF 6

Date Rec'd in Lab: 7-11-15

ALPHA Job #: L1515969

## Project Information

Project Name:  
Project Location:  
Project #: 40223-002  
Project Manager:  
ALPHA Quote #:

## Report Information - Data Deliverables

FAX  EMAIL  
 ADEX  Add'l Deliverables

## Billing Information

Same as Client info PO #:

## Client Information

Client: Haley + Aldrich  
Address: 5333 Mission Center Rd  
San Diego CA 92108  
Phone: 619-285-7122  
Fax:

## Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!)  
Date Due: Time:

## Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Email: skennard@haleyaldrich.com  
 These samples have been previously analyzed by Alpha  
Other Project Specific Requirements/Comments/Detection Limits:  
hold 1-4oz jar for VOC

ANALYSIS	SAMPLE HANDLING				TOTAL # BOTTLES
	Done	Not needed	Lab to do	Lab to do	
TAL Metals (6010)					
TPH C6-C44 (6015)					
PAH (8270C)					
VOC (8260B)					

Filtration \_\_\_\_\_  
 Done  
 Not needed  
 Lab to do  
 Lab to do  
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS				Sample Specific Comments	TOTAL # BOTTLES	
		Date	Time			TAL Metals (6010)	TPH C6-C44 (6015)	PAH (8270C)	VOC (8260B)			
15969-01	TB01-071015	7/10/15	0800	W	T.N.				X			2
02	EB01-071015		1505	W		X	X	X	X			6
03	EB02-071015		1500	W		X	X	X	X			7
04	DP-050-80-050-01		0815	SD				X				2
05	DP-050-80- <sup>100</sup> <del>050</del> -01		0825					X				2
06	DP-051-50-050-01		0835					X				2
07	DP-051-50-100-01		0844					X				2
08	DP-051-50-100-02		0844					X				1
09	DP-048-80-050-01		0900					X				2
10	DP-048-80-100-01		0910					X				2

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	7/10/15 15:45	<i>[Signature]</i>	7/10/15 15:45
<i>[Signature]</i>	7/10/15 14:00	<i>[Signature]</i>	7/10/15 21:00
<i>[Signature]</i>	7/10/15 16:10	<i>[Signature]</i>	7/11/15 6:10
<i>[Signature]</i>	7/11/15 10:10	<i>[Signature]</i>	7/11/15 10:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



# CHAIN OF CUSTODY

PAGE 2 OF 6

WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

## Client Information

Client: Haley + Aldrich  
Address: 5333 Mission Center Rd  
San Diego CA 92108  
Phone: 619-285-7122  
Fax:  
Email: kkenard@haleyaldrich.com

## Project Information

Project Name:  
Project Location:  
Project #: 40223-022  
Project Manager:  
ALPHA Quote #:

Date Rec'd in Lab: 7-11-15

ALPHA Job #: L1519769

## Report Information - Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

## Billing Information

Same as Client info PO #:

## Regulatory Requirements/Report Limits

State /Fed Program Criteria

## Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!)

Date Due: Time:

Other Project Specific Requirements/Comments/Detection Limits:

hold 1-40223 for VOC

ANALYSIS

TAL Metals (6010)  
TPH (6-c44) (8015)  
PAH (8270 C)

SAMPLE HANDLING

Filtration \_\_\_\_\_

Done

Not needed

Lab to do

Preservation

Lab to do

(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS			Sample Specific Comments	TOTAL # BOTTLES
		Date	Time			TAL Metals (6010)	TPH (6-c44) (8015)	PAH (8270 C)		
15969-11	DP-049-50-050-01	7/10/15	0917	SO	T.N.	X				2
12	DP-049-50-100-01		0920			X				2
13	DP-052-50-050-01		0940			X				2
14	DP-052-50-100-01		0945			X				2
15	DP-047-50-010-01		0850			X	X	X		2
16	DP-047-50-010-02		0850			X	X	X		2
17	DP-047-50-050-01		0855			X	X	X		2
18	DP-047-50-100-01		0900			X	X	X		2
19	DP-053-50-010-01		1005			X	X	X		2
20	DP-053-50-050-01		1010			X	X	X		2

Container Type

Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	7/10/15 15:45	<u>[Signature]</u>	7/10/15 15:45
<u>[Signature]</u>	7/10/15 7:00	<u>[Signature]</u>	7/10/15 8:10
<u>[Signature]</u>	7/10/15 6:00	<u>[Signature]</u>	7/10/15 6:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

# CHAIN OF CUSTODY

PAGE 3 OF 6

Date Rec'd in Lab: 7-11-15

ALPHA Job #: L151 5969



WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

### Project Information

Project Name:

Project Location:

Project #: 40223-002

Project Manager:

ALPHA Quote #:

### Turn-Around Time

Standard       RUSH (only confirmed if pre-approved!)

Date Due:      Time:

### Report Information - Data Deliverables

FAX       EMAIL  
 ADEx       Add'l Deliverables

### Billing Information

Same as Client info      PO #:

### Regulatory Requirements/Report Limits

State /Fed Program      Criteria

### Client Information

Client: Haley + Aldrich

Address: 5333 Mission Center Rd

San Diego CA 92108

Phone: 619-285-7122

Fax:

Email: dkenward@haleyaldrich.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

hold 1.4oz jar for VOC

ANALYSIS

*TALM (8015)*

*TPH (8015)*

*PAH (8270C)*

**SAMPLE HANDLING**

Filtration \_\_\_\_\_

Done

Not needed

Lab to do

**Preservation**

Lab to do

(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials				Sample Specific Comments		
		Date	Time								
15969 21	DP-053-50-100-01	7/10/15	1015	SO	T.N.	X	X	X			2
22	DP-054-50-010-01	↓	1020			X	X	X			2
23	DP-054-50-050-01		1025			X	X	X			2
24	DP-054-50-100-01		1030			X	X	X			2
25	DP-054-50-150-02		1030			X	X	X			1
26	DP-055-50-010-01		1035			X	X	X			2
27	DP-055-50-050-01		1040			X	X	X			2
28	DP-055-50-100-01		1045			X	X	X			2
29	DP-056-50-010-01		1210				X	X			2
30	DP-056-50-050-01		1213				X	X			2

Container Type \_\_\_\_\_  
Preservative \_\_\_\_\_

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>7/10/15 15:45</u>	<u>AAAL J...</u>	<u>7/10/15 15:45</u>
<u>[Signature]</u>	<u>7/10/15 2:10</u>	<u>AAAL</u>	<u>7/10/15 2:10</u>
<u>[Signature]</u>	<u>7/10/15 6:10</u>	<u>[Signature]</u>	<u>7/11/15 6:10</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



# CHAIN OF CUSTODY

PAGE 4 OF 6

WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

### Client Information

Client: Haley + Aldrich  
Address: 5333 Mission Center Rd  
San Diego CA 92108  
Phone: 619-285-7122  
Fax:

Email: dkernan@haleyaldrich.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:  
hold 1-4oz jar for VOC

### Project Information

Project Name:  
Project Location:  
Project #: 40223-022  
Project Manager:  
ALPHA Quote #:

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!)  
Date Due: Time:

### Report Information - Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

### Regulatory Requirements/Report Limits

State /Fed Program Criteria

ALPHA Job #: CL515969

### Billing Information

Same as Client info PO #:

ANALYSIS

TAL Metals (6010)  
TPH C6-C14 (9015)  
PAH (82-70c)

SAMPLE HANDLING

Filtration \_\_\_\_\_

Done

Not needed

Lab to do

Preservation

Lab to do

(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments	TOTAL # BOTTLES			
		Date	Time			TAL Metals (6010)	TPH C6-C14 (9015)	PAH (82-70c)												
15969-31	DP-056-50-100-01	7/10/15	1215	SO	T.N.	X	X													2
32	DP-057-50-010-01		1220			X	X													2
33	DP-057-50-050-01		1222			X	X													2
34	DP-057-50-100-01		1225			X	X													2
35	DP-057-50-100-02		1225			X	X													1
36	DP-058-50-010-01		1255			X	X													2
37	DP-058-50-050-01		1300			X	X													2
38	DP-058-50-100-01		1305			X	X													2
39	DP-059-50-010-01		1320			X	X													2
40	DP-059-50-010-02		1320			X	X													2

Relinquished By: <u>[Signature]</u>	Date/Time: <u>7/10/15 15:45</u>	Received By: <u>[Signature]</u>	Date/Time: <u>7/10/15 15:45</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>7/10/15 6:10</u>	Received By: <u>[Signature]</u>	Date/Time: <u>7/10/15 7:00</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>7/10/15 6:10</u>	Received By: <u>[Signature]</u>	Date/Time: <u>7/11/15 6:00</u>
Relinquished By: <u>[Signature]</u>	Date/Time: <u>7/11/15 6:10</u>	Received By: <u>[Signature]</u>	Date/Time: <u>7-11-15 10:10</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

# CHAIN OF CUSTODY

PAGE 5 OF 6

Date Rec'd in Lab: 7-11-15

ALPHA Job #: C151 5969

**Project Information**

Project Name:

Project Location:

Project #: 40223-002

Project Manager:

ALPHA Quote #:

**Turn-Around Time**

Standard  RUSH (only confirmed if pre-approved!)

Date Due: \_\_\_\_\_ Time: \_\_\_\_\_

**Report Information - Data Deliverables**

FAX  EMAIL

ADEx  Add'l Deliverables

**Billing Information**

Same as Client info PO #:

**Regulatory Requirements/Report Limits**

State /Fed Program	Criteria

**Client Information**

Client: Haley + Aldrich

Address: 5333 Mission Center Rd  
San Diego CA 92108

Phone: 619-285-7122

Fax:

Email: dkennarda@haleyaldrich.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:  
hold 1-4oz jar for VOC

**ANALYSIS**

TAL Metals (6000)

TPH C6-C14 (8015)

PAH (8270 C)

**TOTAL # BOTTLES**

**SAMPLE HANDLING**

Filtration \_\_\_\_\_

Done

Not needed

Lab to do

**Preservation**

Lab to do

(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										TOTAL # BOTTLES				
		Date	Time			TAL Metals (6000)	TPH C6-C14 (8015)	PAH (8270 C)												
5969-41	DP-059-50-050-01	7/10/15	1325	SD	T.N.	X	X													2
42	DP-059-50-100-01		1330			X	X													2
43	DP-060-50-010-01		1335			X	X													2
44	DP-060-50-050-01		1340			X	X													2
45	DP-060-50-100-01		1345			X	X													2
46	DP-061-50-010-01		1405			X	X													2
47	DP-061-50-050-01		1410			X	X													2
48	DP-061-50-050-02		1410			X	X													1
49	DP-061-50-100-01		1415			X	X													2
50	DP-062-50-010-01	✓	1425	✓	✓	X	X													2

Container Type		Preservative	
Relinquished By:	Date/Time	Received By:	Date/Time
<u>Cheryl</u>	<u>7/10/15 15:45</u>	<u>AAC J...</u>	<u>7/10/15 15:45</u>
<u>[Signature]</u>	<u>7/10/15 2:00</u>	<u>[Signature]</u>	<u>7/10/15 2:00</u>
<u>[Signature]</u>	<u>7/10/15 6:00</u>	<u>[Signature]</u>	<u>7/10/15 6:00</u>
<u>[Signature]</u>	<u>7/11/15 10:10</u>	<u>[Signature]</u>	<u>7-11-15 10:10</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.





## ANALYTICAL REPORT

Lab Number:	L1516001
Client:	Haley & Aldrich, Inc. 5333 Mission Center Rd San Diego, CA 92108
ATTN:	Dana Kennard
Phone:	(619) 285-7108
Project Name:	BUZZARD POINT
Project Number:	40223-002
Report Date:	07/20/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1516001-01	DP-065-SO-010-01	SOIL	Not Specified	07/13/15 08:20	07/13/15
L1516001-02	DP-065-SO-050-01	SOIL	Not Specified	07/13/15 08:25	07/13/15
L1516001-03	DP-065-SO-100-01	SOIL	Not Specified	07/13/15 08:30	07/13/15
L1516001-04	DP-066-SO-010-01	SOIL	Not Specified	07/13/15 08:50	07/13/15
L1516001-05	DP-066-SO-050-01	SOIL	Not Specified	07/13/15 08:55	07/13/15
L1516001-06	DP-066-SO-100-01	SOIL	Not Specified	07/13/15 09:00	07/13/15
L1516001-07	DP-067-SO-010-01	SOIL	Not Specified	07/13/15 09:25	07/13/15
L1516001-08	DP-067-SO-050-01	SOIL	Not Specified	07/13/15 09:30	07/13/15
L1516001-09	DP-067-SO-100-01	SOIL	Not Specified	07/13/15 09:35	07/13/15
L1516001-10	DP-068-SO-010-01	SOIL	Not Specified	07/13/15 10:25	07/13/15
L1516001-11	DP-068-SO-050-01	SOIL	Not Specified	07/13/15 10:30	07/13/15
L1516001-12	DP-068-SO-100-01	SOIL	Not Specified	07/13/15 10:35	07/13/15
L1516001-13	DP-070-SO-050-01	SOIL	Not Specified	07/13/15 11:25	07/13/15
L1516001-14	DP-070-SO-100-01	SOIL	Not Specified	07/13/15 11:30	07/13/15
L1516001-15	DP-069-SO-050-01	SOIL	Not Specified	07/13/15 11:50	07/13/15
L1516001-16	DP-069-SO-100-01	SOIL	Not Specified	07/13/15 11:55	07/13/15
L1516001-17	DP-071-SO-050-01	SOIL	Not Specified	07/13/15 12:15	07/13/15
L1516001-18	DP-071-SO-100-01	SOIL	Not Specified	07/13/15 12:20	07/13/15
L1516001-19	DP-072-SO-010-01	SOIL	Not Specified	07/13/15 13:45	07/13/15
L1516001-20	DP-072-SO-010-02	SOIL	Not Specified	07/13/15 13:45	07/13/15
L1516001-21	DP-072-SO-050-01	SOIL	Not Specified	07/13/15 13:50	07/13/15
L1516001-22	DP-072-SO-100-01	SOIL	Not Specified	07/13/15 13:55	07/13/15



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

---

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

### Case Narrative (continued)

#### Report Submission

This final report replaces the partial report issued earlier today and includes the results of all requested analyses.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

The project name was specified by the client.

#### Petroleum Hydrocarbon Quantitation

The WG802456-3 Laboratory Duplicate RPD, performed on L1516001-01, is outside the acceptance criteria for total petroleum hydrocarbons (c9-c44) (139%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

#### Metals

L1516001-01, -02, and -03: The sample has elevated detection limits due to the dilution required by matrix interferences encountered during analysis.


The WG802389-4 MS recoveries for aluminum (1860%), iron (1160%), and manganese (0%), performed on L1516001-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG802389-4 MS recovery, performed on L1516001-01, is outside the acceptance criteria for antimony (63%). A post digestion spike was performed and yielded an unacceptable recovery of 35%. This has been attributed to sample matrix.

The WG802389-3 Laboratory Duplicate RPDs, performed on L1516001-01, are outside the acceptance criteria for arsenic (90%) and cobalt (26%). The elevated RPDs have been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 07/20/15

# ORGANICS

# SEMIVOLATILES

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-04  
 Client ID: DP-066-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/17/15 13:20  
 Analyst: MY  
 Percent Solids: 86%

Date Collected: 07/13/15 08:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 13:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.061	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	0.053	J	mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.040	1
Fluorene	ND		mg/kg	0.19	0.055	1
Phenanthrene	0.20		mg/kg	0.12	0.038	1
Anthracene	0.060	J	mg/kg	0.12	0.032	1
Fluoranthene	0.51		mg/kg	0.12	0.035	1
Pyrene	0.44		mg/kg	0.12	0.037	1
Benzo(a)anthracene	0.33		mg/kg	0.12	0.038	1
Chrysene	0.33		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	0.27		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	0.28		mg/kg	0.12	0.037	1
Benzo(a)pyrene	0.32		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	0.17		mg/kg	0.15	0.043	1
Dibenzo(a,h)anthracene	0.070	J	mg/kg	0.12	0.037	1
Benzo(ghi)perylene	0.17		mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	70		30-120
4-Terphenyl-d14	55		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-05  
 Client ID: DP-066-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/17/15 13:46  
 Analyst: MY  
 Percent Solids: 85%

Date Collected: 07/13/15 08:55  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 13:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	0.15	J	mg/kg	0.19	0.064	1
2-Methylnaphthalene	0.15	J	mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.19	0.056	1
Phenanthrene	0.20		mg/kg	0.12	0.038	1
Anthracene	0.046	J	mg/kg	0.12	0.032	1
Fluoranthene	0.28		mg/kg	0.12	0.036	1
Pyrene	0.26		mg/kg	0.12	0.038	1
Benzo(a)anthracene	0.15		mg/kg	0.12	0.038	1
Chrysene	0.16		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	0.12		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	0.14		mg/kg	0.12	0.037	1
Benzo(a)pyrene	0.14	J	mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	0.082	J	mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	0.083	J	mg/kg	0.16	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	64		30-120
4-Terphenyl-d14	58		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-06  
 Client ID: DP-066-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/17/15 14:11  
 Analyst: MY  
 Percent Solids: 81%

Date Collected: 07/13/15 09:00  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 13:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.067	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.065	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.066	1
Acenaphthylene	ND		mg/kg	0.16	0.038	1
Acenaphthene	ND		mg/kg	0.16	0.042	1
Fluorene	ND		mg/kg	0.20	0.058	1
Phenanthrene	ND		mg/kg	0.12	0.040	1
Anthracene	ND		mg/kg	0.12	0.034	1
Fluoranthene	ND		mg/kg	0.12	0.037	1
Pyrene	ND		mg/kg	0.12	0.039	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.040	1
Chrysene	ND		mg/kg	0.12	0.040	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.041	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.050	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.045	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.039	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.042	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	86		30-120
4-Terphenyl-d14	74		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-07  
 Client ID: DP-067-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/17/15 15:33  
 Analyst: MY  
 Percent Solids: 86%

Date Collected: 07/13/15 09:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 13:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	ND		mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.040	1
Fluorene	ND		mg/kg	0.19	0.055	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	0.088	J	mg/kg	0.12	0.035	1
Pyrene	0.079	J	mg/kg	0.12	0.038	1
Benzo(a)anthracene	0.059	J	mg/kg	0.12	0.038	1
Chrysene	0.061	J	mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	0.054	J	mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	0.053	J	mg/kg	0.12	0.037	1
Benzo(a)pyrene	0.062	J	mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.037	1
Benzo(ghi)perylene	0.044	J	mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	86		30-120
4-Terphenyl-d14	72		18-120



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-08  
 Client ID: DP-067-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/17/15 15:58  
 Analyst: MY  
 Percent Solids: 82%

Date Collected: 07/13/15 09:30  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 13:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.067	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.064	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.066	1
Acenaphthylene	ND		mg/kg	0.16	0.038	1
Acenaphthene	ND		mg/kg	0.16	0.042	1
Fluorene	ND		mg/kg	0.20	0.058	1
Phenanthrene	0.22		mg/kg	0.12	0.039	1
Anthracene	0.065	J	mg/kg	0.12	0.034	1
Fluoranthene	0.46		mg/kg	0.12	0.037	1
Pyrene	0.39		mg/kg	0.12	0.039	1
Benzo(a)anthracene	0.28		mg/kg	0.12	0.040	1
Chrysene	0.28		mg/kg	0.12	0.040	1
Benzo(b)fluoranthene	0.23		mg/kg	0.12	0.041	1
Benzo(k)fluoranthene	0.23		mg/kg	0.12	0.038	1
Benzo(a)pyrene	0.28		mg/kg	0.16	0.049	1
Indeno(1,2,3-cd)pyrene	0.15	J	mg/kg	0.16	0.045	1
Dibenzo(a,h)anthracene	0.072	J	mg/kg	0.12	0.039	1
Benzo(ghi)perylene	0.16		mg/kg	0.16	0.042	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	56		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-09  
 Client ID: DP-067-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/17/15 16:22  
 Analyst: MY  
 Percent Solids: 83%

Date Collected: 07/13/15 09:35  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 13:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.063	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.041	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.039	1
Chrysene	ND		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	70		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-10  
 Client ID: DP-068-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/17/15 16:48  
 Analyst: MY  
 Percent Solids: 86%

Date Collected: 07/13/15 10:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 13:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.061	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	ND		mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.040	1
Fluorene	ND		mg/kg	0.19	0.055	1
Phenanthrene	0.11	J	mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	0.26		mg/kg	0.12	0.035	1
Pyrene	0.22		mg/kg	0.12	0.037	1
Benzo(a)anthracene	0.17		mg/kg	0.12	0.038	1
Chrysene	0.17		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	0.14		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	0.15		mg/kg	0.12	0.037	1
Benzo(a)pyrene	0.16		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	0.080	J	mg/kg	0.15	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.037	1
Benzo(ghi)perylene	0.083	J	mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	80		30-120
4-Terphenyl-d14	61		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-11  
 Client ID: DP-068-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/17/15 17:13  
 Analyst: MY  
 Percent Solids: 83%

Date Collected: 07/13/15 10:30  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 13:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.066	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.064	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.065	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.041	1
Fluorene	ND		mg/kg	0.20	0.057	1
Phenanthrene	ND		mg/kg	0.12	0.039	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.037	1
Pyrene	ND		mg/kg	0.12	0.039	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.039	1
Chrysene	ND		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.049	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.039	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.042	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	82		30-120
4-Terphenyl-d14	66		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-12  
 Client ID: DP-068-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/17/15 17:39  
 Analyst: MY  
 Percent Solids: 79%

Date Collected: 07/13/15 10:35  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 13:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.21	0.069	1
2-Methylnaphthalene	ND		mg/kg	0.25	0.066	1
2-Chloronaphthalene	ND		mg/kg	0.21	0.067	1
Acenaphthylene	ND		mg/kg	0.16	0.039	1
Acenaphthene	ND		mg/kg	0.16	0.043	1
Fluorene	ND		mg/kg	0.21	0.059	1
Phenanthrene	ND		mg/kg	0.12	0.040	1
Anthracene	ND		mg/kg	0.12	0.034	1
Fluoranthene	ND		mg/kg	0.12	0.038	1
Pyrene	ND		mg/kg	0.12	0.040	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.040	1
Chrysene	ND		mg/kg	0.12	0.041	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.042	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.051	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.046	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.040	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.043	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	81		30-120
4-Terphenyl-d14	79		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-19  
 Client ID: DP-072-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/17/15 18:04  
 Analyst: MY  
 Percent Solids: 84%

Date Collected: 07/13/15 13:45  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 13:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.063	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	76		30-120
4-Terphenyl-d14	64		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-20  
 Client ID: DP-072-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/17/15 18:30  
 Analyst: MY  
 Percent Solids: 83%

Date Collected: 07/13/15 13:45  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 13:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.19	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.047	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	85		30-120
4-Terphenyl-d14	76		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-21  
 Client ID: DP-072-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/17/15 18:55  
 Analyst: MY  
 Percent Solids: 85%

Date Collected: 07/13/15 13:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 13:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	ND		mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.040	1
Fluorene	ND		mg/kg	0.19	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	80		30-120
4-Terphenyl-d14	68		18-120



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-22  
 Client ID: DP-072-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/17/15 19:21  
 Analyst: MY  
 Percent Solids: 83%

Date Collected: 07/13/15 13:55  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 13:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.066	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.064	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.065	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.041	1
Fluorene	ND		mg/kg	0.20	0.057	1
Phenanthrene	ND		mg/kg	0.12	0.039	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.037	1
Pyrene	ND		mg/kg	0.12	0.039	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.039	1
Chrysene	ND		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.049	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.039	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.042	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	81		30-120
4-Terphenyl-d14	64		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/17/15 10:50  
**Analyst:** MY

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/14/15 13:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-12,19-22 Batch: WG802558-1					
Naphthalene	ND		mg/kg	0.16	0.055
2-Methylnaphthalene	ND		mg/kg	0.20	0.053
2-Chloronaphthalene	ND		mg/kg	0.16	0.054
Acenaphthylene	ND		mg/kg	0.13	0.031
Acenaphthene	ND		mg/kg	0.13	0.034
Fluorene	ND		mg/kg	0.16	0.047
Phenanthrene	ND		mg/kg	0.099	0.032
Anthracene	ND		mg/kg	0.099	0.028
Fluoranthene	ND		mg/kg	0.099	0.030
Pyrene	ND		mg/kg	0.099	0.032
Benzo(a)anthracene	ND		mg/kg	0.099	0.032
Chrysene	ND		mg/kg	0.099	0.032
Benzo(b)fluoranthene	ND		mg/kg	0.099	0.033
Benzo(k)fluoranthene	ND		mg/kg	0.099	0.032
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.13	0.037
Dibenzo(a,h)anthracene	ND		mg/kg	0.099	0.032
Benzo(ghi)perylene	ND		mg/kg	0.13	0.034

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	77		18-120

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-12,19-22 Batch: WG802558-2 WG802558-3								
Naphthalene	77		73		40-140	5		50
2-Methylnaphthalene	77		74		40-140	4		50
2-Chloronaphthalene	77		74		40-140	4		50
Acenaphthylene	82		79		40-140	4		50
Acenaphthene	78		73		31-137	7		50
Fluorene	78		75		40-140	4		50
Phenanthrene	75		70		40-140	7		50
Anthracene	81		76		40-140	6		50
Fluoranthene	82		77		40-140	6		50
Pyrene	81		76		35-142	6		50
Benzo(a)anthracene	84		79		40-140	6		50
Chrysene	78		74		40-140	5		50
Benzo(b)fluoranthene	79		79		40-140	0		50
Benzo(k)fluoranthene	80		72		40-140	11		50
Benzo(a)pyrene	83		78		40-140	6		50
Indeno(1,2,3-cd)pyrene	83		78		40-140	6		50
Dibenzo(a,h)anthracene	80		75		40-140	6		50
Benzo(ghi)perylene	80		75		40-140	6		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-12,19-22 Batch: WG802558-2 WG802558-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	95		90		23-120
2-Fluorobiphenyl	78		73		30-120
4-Terphenyl-d14	79		76		18-120

# PETROLEUM HYDROCARBONS

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-01  
 Client ID: DP-065-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/16/15 05:07  
 Analyst: AR  
 Percent Solids: 88%

Date Collected: 07/13/15 08:20  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	264.		mg/kg	36.9	4.12	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-01  
 Client ID: DP-065-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 01:58  
 Analyst: BS  
 Percent Solids: 88%

Date Collected: 07/13/15 08:20  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	ND		mg/kg	2.8	0.053	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	94		70-130
4-Bromofluorobenzene	99		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-02  
 Client ID: DP-065-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 22:08  
 Analyst: SW  
 Percent Solids: 85%

Date Collected: 07/13/15 08:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	4.39	J	mg/kg	38.9	4.34	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	65		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-02  
 Client ID: DP-065-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 02:38  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/13/15 08:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	96		70-130
4-Bromofluorobenzene	102		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-03  
 Client ID: DP-065-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 21:03  
 Analyst: SW  
 Percent Solids: 80%

Date Collected: 07/13/15 08:30  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	16.2	J	mg/kg	39.7	4.43	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	72		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-03  
 Client ID: DP-065-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 03:17  
 Analyst: BS  
 Percent Solids: 80%

Date Collected: 07/13/15 08:30  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	3.1	0.060	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95		70-130
4-Bromofluorobenzene	101		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-04  
 Client ID: DP-066-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/16/15 06:54  
 Analyst: AR  
 Percent Solids: 86%

Date Collected: 07/13/15 08:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	56.8		mg/kg	36.7	4.10	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	69		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-04  
 Client ID: DP-066-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 03:56  
 Analyst: BS  
 Percent Solids: 86%

Date Collected: 07/13/15 08:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	1.6	J	mg/kg	2.6	0.049	1
-------------------------	-----	---	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	87		70-130
4-Bromofluorobenzene	90		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-05  
 Client ID: DP-066-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 05:55  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/13/15 08:55  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	66.		mg/kg	2.8	0.053	1
-------------------------	-----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	99		70-130
4-Bromofluorobenzene	74		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-05 D  
 Client ID: DP-066-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 22:40  
 Analyst: SW  
 Percent Solids: 85%

Date Collected: 07/13/15 08:55  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	1020		mg/kg	192	21.4	5
---------------	------	--	-------	-----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	112		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-06  
 Client ID: DP-066-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 19:58  
 Analyst: SW  
 Percent Solids: 81%

Date Collected: 07/13/15 09:00  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	7.54	J	mg/kg	40.0	4.46	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	69		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-06  
 Client ID: DP-066-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 04:36  
 Analyst: BS  
 Percent Solids: 81%

Date Collected: 07/13/15 09:00  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	3.1	0.059	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	99		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-07  
 Client ID: DP-067-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 20:31  
 Analyst: SW  
 Percent Solids: 86%

Date Collected: 07/13/15 09:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	15.6	J	mg/kg	38.2	4.26	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	87		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-07  
 Client ID: DP-067-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 05:15  
 Analyst: BS  
 Percent Solids: 86%

Date Collected: 07/13/15 09:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.056	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	99		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-08  
 Client ID: DP-067-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/16/15 05:42  
 Analyst: AR  
 Percent Solids: 82%

Date Collected: 07/13/15 09:30  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	106.		mg/kg	38.6	4.30	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	66		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-08  
 Client ID: DP-067-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 11:28  
 Analyst: BS  
 Percent Solids: 82%

Date Collected: 07/13/15 09:30  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.056	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	79		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-09  
 Client ID: DP-067-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 21:36  
 Analyst: SW  
 Percent Solids: 83%

Date Collected: 07/13/15 09:35  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	7.32	J	mg/kg	39.8	4.45	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	83		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-09  
 Client ID: DP-067-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 12:09  
 Analyst: BS  
 Percent Solids: 83%

Date Collected: 07/13/15 09:35  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	91		70-130
4-Bromofluorobenzene	79		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-10  
 Client ID: DP-068-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/16/15 06:18  
 Analyst: AR  
 Percent Solids: 86%

Date Collected: 07/13/15 10:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	62.4		mg/kg	37.9	4.23	1
---------------	------	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	66		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-10  
 Client ID: DP-068-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 12:50  
 Analyst: BS  
 Percent Solids: 86%

Date Collected: 07/13/15 10:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	92		70-130
4-Bromofluorobenzene	81		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-11  
 Client ID: DP-068-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 15:04  
 Analyst: AR  
 Percent Solids: 83%

Date Collected: 07/13/15 10:30  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	9.23	J	mg/kg	39.7	4.43	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	73		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-11  
 Client ID: DP-068-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 13:30  
 Analyst: BS  
 Percent Solids: 83%

Date Collected: 07/13/15 10:30  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	3.0	0.058	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	83		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-12  
 Client ID: DP-068-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/15/15 20:14  
 Analyst: AR  
 Percent Solids: 79%

Date Collected: 07/13/15 10:35  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 11:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	ND		mg/kg	41.9	4.67	1
---------------	----	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	76		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-12  
 Client ID: DP-068-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 14:11  
 Analyst: BS  
 Percent Solids: 79%

Date Collected: 07/13/15 10:35  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	3.0	0.058	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	90		70-130
4-Bromofluorobenzene	80		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-13  
 Client ID: DP-070-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/15/15 20:50  
 Analyst: AR  
 Percent Solids: 84%

Date Collected: 07/13/15 11:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 11:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	ND		mg/kg	38.9	4.34	1
---------------	----	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	64		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-13  
 Client ID: DP-070-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 14:52  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/13/15 11:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.056	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	91		70-130
4-Bromofluorobenzene	79		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-14  
 Client ID: DP-070-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/15/15 21:26  
 Analyst: AR  
 Percent Solids: 85%

Date Collected: 07/13/15 11:30  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 11:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	5.94	J	mg/kg	38.4	4.29	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	67		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-14  
 Client ID: DP-070-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 15:32  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/13/15 11:30  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.055	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	92		70-130
4-Bromofluorobenzene	83		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-15  
 Client ID: DP-069-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/15/15 22:01  
 Analyst: AR  
 Percent Solids: 82%

Date Collected: 07/13/15 11:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 11:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	5.32	J	mg/kg	38.6	4.30	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	70		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-15  
 Client ID: DP-069-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 16:13  
 Analyst: BS  
 Percent Solids: 82%

Date Collected: 07/13/15 11:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	3.0	0.057	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	83		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-16  
 Client ID: DP-069-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/15/15 22:36  
 Analyst: AR  
 Percent Solids: 86%

Date Collected: 07/13/15 11:55  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 11:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	4.53	J	mg/kg	36.4	4.07	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	63		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-16  
 Client ID: DP-069-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 16:54  
 Analyst: BS  
 Percent Solids: 86%

Date Collected: 07/13/15 11:55  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.056	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	81		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-17  
 Client ID: DP-071-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/15/15 23:11  
 Analyst: AR  
 Percent Solids: 85%

Date Collected: 07/13/15 12:15  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 11:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	ND		mg/kg	38.1	4.26	1
---------------	----	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	74		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-17  
 Client ID: DP-071-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 17:35  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/13/15 12:15  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.8	0.054	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	89		70-130
4-Bromofluorobenzene	78		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-18  
 Client ID: DP-071-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/15/15 23:47  
 Analyst: AR  
 Percent Solids: 85%

Date Collected: 07/13/15 12:20  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 11:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	ND		mg/kg	38.2	4.26	1
---------------	----	--	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	61		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-18  
 Client ID: DP-071-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 18:15  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/13/15 12:20  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.056	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	91		70-130
4-Bromofluorobenzene	81		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-19  
 Client ID: DP-072-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/16/15 00:22  
 Analyst: AR  
 Percent Solids: 84%

Date Collected: 07/13/15 13:45  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 11:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	5.56	J	mg/kg	37.2	4.15	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	72		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-19  
 Client ID: DP-072-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 21:38  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/13/15 13:45  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.056	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	89		70-130
4-Bromofluorobenzene	78		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-20  
 Client ID: DP-072-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/16/15 00:57  
 Analyst: AR  
 Percent Solids: 83%

Date Collected: 07/13/15 13:45  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 11:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	8.37	J	mg/kg	39.0	4.36	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	73		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-20  
 Client ID: DP-072-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 23:40  
 Analyst: BS  
 Percent Solids: 83%

Date Collected: 07/13/15 13:45  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.8	0.054	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	90		70-130
4-Bromofluorobenzene	78		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-21  
 Client ID: DP-072-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/16/15 01:32  
 Analyst: AR  
 Percent Solids: 85%

Date Collected: 07/13/15 13:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 11:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	5.46	J	mg/kg	38.1	4.25	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	76		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-21  
 Client ID: DP-072-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 00:20  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/13/15 13:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.056	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	91		70-130
4-Bromofluorobenzene	80		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-22  
 Client ID: DP-072-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/16/15 02:08  
 Analyst: AR  
 Percent Solids: 83%

Date Collected: 07/13/15 13:55  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/14/15 11:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	5.03	J	mg/kg	39.7	4.43	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	68		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-22  
 Client ID: DP-072-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 01:01  
 Analyst: BS  
 Percent Solids: 83%

Date Collected: 07/13/15 13:55  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.8	0.055	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	80		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/16/15 03:19  
**Analyst:** AR

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/14/15 10:32

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-11 Batch: WG802456-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	32.4	3.61

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	66		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/15/15 18:27  
**Analyst:** AR

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/14/15 11:07

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 12-22 Batch: WG802482-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	33.1	3.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	75		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8015C(M)  
Analytical Date: 07/19/15 20:43  
Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 01-07 Batch: WG804240-3					
Gasoline Range Organics	ND		mg/kg	2.5	0.048

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	84		70-130
4-Bromofluorobenzene	92		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/19/15 08:47  
**Analyst:** BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 08-18 Batch: WG804241-3					
Gasoline Range Organics	ND		mg/kg	2.5	0.048

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	95		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/19/15 20:58  
**Analyst:** BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 19-22 Batch: WG804242-3					
Gasoline Range Organics	ND		mg/kg	2.5	0.048

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	89		70-130
4-Bromofluorobenzene	85		70-130

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-11 Batch: WG802456-2								
Total Petroleum Hydrocarbons (C9-C44)	58		-		40-140	-		40

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
o-Terphenyl	64				40-140

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 12-22 Batch: WG802482-2								
Total Petroleum Hydrocarbons (C9-C44)	68		-		40-140	-		40

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
o-Terphenyl	67				40-140



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01-07 Batch: WG804240-1 WG804240-2								
Gasoline Range Organics	90		91		80-120	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	102		99		70-130
4-Bromofluorobenzene	109		106		70-130

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Gasoline Range Organics - Westborough Lab Associated sample(s): 08-18 Batch: WG804241-1 WG804241-2								
Gasoline Range Organics	96		98		80-120	2		20

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,1,1-Trifluorotoluene	102		106		70-130
4-Bromofluorobenzene	96		98		70-130

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 19-22 Batch: WG804242-1 WG804242-2								
Gasoline Range Organics	95		97		80-120	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	101		103		70-130
4-Bromofluorobenzene	99		96		70-130

## Matrix Spike Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Lab Number: L1516001

Project Number: 40223-002

Report Date: 07/20/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Gasoline Range Organics - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG804240-5 QC Sample: L1515969-55 Client ID: MS Sample												
Gasoline Range Organics	ND	20.1	18	88		-	-		80-120	-		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1,1,1-Trifluorotoluene	101				70-130
4-Bromofluorobenzene	107				70-130

### Matrix Spike Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>MS Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>MSD Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>RPD Qual</i>	<i>RPD Limits</i>
Gasoline Range Organics - Westborough Lab Associated sample(s): 08-18 QC Batch ID: WG804241-5 QC Sample: L1515969-28 Client ID: MS Sample												
Gasoline Range Organics	ND	22.6	21	94		-	-		80-120	-		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>MS Qualifier</i>	<i>MSD % Recovery</i>	<i>MSD Qualifier</i>	<i>Acceptance Criteria</i>
1,1,1-Trifluorotoluene	101				70-130
4-Bromofluorobenzene	84				70-130

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>MS Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>MSD Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>RPD Qual</i>	<i>RPD Limits</i>
Gasoline Range Organics - Westborough Lab Associated sample(s): 19-22 QC Batch ID: WG804242-5 QC Sample: L1516001-19 Client ID: DP-072-SO-010-01												
Gasoline Range Organics	ND	23.3	22	95		-	-		80-120	-		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>MS Qualifier</i>	<i>MSD % Recovery</i>	<i>MSD Qualifier</i>	<i>Acceptance Criteria</i>
1,1,1-Trifluorotoluene	93				70-130
4-Bromofluorobenzene	79				70-130

**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG802456-3 QC Sample: L1516001-01 Client ID: DP-065-SO-010-01						
Total Petroleum Hydrocarbons (C9-C44)	264	47.7	mg/kg	139	Q	40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	60		75		40-140

Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 12-22 QC Batch ID: WG802482-3 QC Sample: L1516001-12 Client ID: DP-068-SO-100-01						
Total Petroleum Hydrocarbons (C9-C44)	ND	ND	mg/kg	NC		40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	76		68		40-140



**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** BUZZARD POINT

**Project Number:** 40223-002

**Lab Number:** L1516001

**Report Date:** 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG804240-4 QC Sample: L1515969-55 Client ID: DUP Sample					
Gasoline Range Organics	ND	ND	mg/kg	NC	20

Surrogate	%Recovery Qualifier	%Recovery Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	88	93	70-130
4-Bromofluorobenzene	94	100	70-130



**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 08-18 QC Batch ID: WG804241-4 QC Sample: L1515969-28 Client ID: DUP Sample					
Gasoline Range Organics	ND	ND	mg/kg	NC	20

Surrogate	%Recovery Qualifier	%Recovery Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	95	94	70-130
4-Bromofluorobenzene	80	81	70-130



**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** BUZZARD POINT

**Project Number:** 40223-002

**Lab Number:** L1516001

**Report Date:** 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 19-22 QC Batch ID: WG804242-4 QC Sample: L1516001-19 Client ID: DP-072-SO-010-01					
Gasoline Range Organics	ND	ND	mg/kg	NC	20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	89		91		70-130
4-Bromofluorobenzene	78		79		70-130



## METALS

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-01  
 Client ID: DP-065-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 88%

Date Collected: 07/13/15 08:20  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	9800		mg/kg	8.6	1.7	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.3	0.69	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Arsenic, Total	2.5		mg/kg	0.86	0.17	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Barium, Total	71		mg/kg	0.86	0.26	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Beryllium, Total	0.55		mg/kg	0.43	0.09	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Cadmium, Total	0.15	J	mg/kg	0.86	0.06	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Calcium, Total	2000		mg/kg	8.6	2.6	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Chromium, Total	16		mg/kg	0.86	0.17	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Cobalt, Total	8.5		mg/kg	1.7	0.43	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Copper, Total	14		mg/kg	0.86	0.17	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Iron, Total	21000		mg/kg	4.3	1.7	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Lead, Total	46		mg/kg	4.3	0.17	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Magnesium, Total	1000		mg/kg	8.6	0.86	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Manganese, Total	400		mg/kg	0.86	0.17	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Mercury, Total	0.19		mg/kg	0.08	0.02	1	07/16/15 03:53	07/16/15 11:51	EPA 7471B	1,7471B	DB
Nickel, Total	11		mg/kg	2.2	0.34	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Potassium, Total	510		mg/kg	220	34.	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.7	0.26	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.86	0.17	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Sodium, Total	30	J	mg/kg	170	26.	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.7	0.34	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Vanadium, Total	22		mg/kg	0.86	0.09	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT
Zinc, Total	44		mg/kg	4.3	0.60	2	07/14/15 08:20	07/16/15 17:29	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-02  
 Client ID: DP-065-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 85%

Date Collected: 07/13/15 08:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	5300		mg/kg	9.3	1.8	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.6	0.74	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Arsenic, Total	0.35	J	mg/kg	0.93	0.18	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Barium, Total	87		mg/kg	0.93	0.28	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Beryllium, Total	0.59		mg/kg	0.46	0.09	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Cadmium, Total	0.10	J	mg/kg	0.93	0.07	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Calcium, Total	300		mg/kg	9.3	2.8	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Chromium, Total	9.3		mg/kg	0.93	0.18	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Cobalt, Total	6.8		mg/kg	1.8	0.46	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Copper, Total	8.1		mg/kg	0.93	0.18	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Iron, Total	20000		mg/kg	4.6	1.8	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Lead, Total	8.1		mg/kg	4.6	0.18	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Magnesium, Total	510		mg/kg	9.3	0.93	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Manganese, Total	500		mg/kg	0.93	0.18	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Mercury, Total	ND		mg/kg	0.08	0.02	1	07/16/15 03:53	07/16/15 11:53	EPA 7471B	1,7471B	DB
Nickel, Total	10		mg/kg	2.3	0.37	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Potassium, Total	320		mg/kg	230	37.	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.8	0.28	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Silver, Total	ND		mg/kg	0.93	0.18	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Sodium, Total	ND		mg/kg	180	28.	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.8	0.37	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Vanadium, Total	13		mg/kg	0.93	0.09	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT
Zinc, Total	27		mg/kg	4.6	0.65	2	07/14/15 08:20	07/16/15 19:34	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-03  
 Client ID: DP-065-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Percent Solids: 80%

Date Collected: 07/13/15 08:30  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Westborough Lab</b>											
Aluminum, Total	9800		mg/kg	9.4	1.9	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Antimony, Total	ND		mg/kg	4.7	0.76	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Arsenic, Total	0.96		mg/kg	0.94	0.19	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Barium, Total	88		mg/kg	0.94	0.28	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Beryllium, Total	0.82		mg/kg	0.47	0.09	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.94	0.07	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Calcium, Total	1400		mg/kg	9.4	2.8	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Chromium, Total	15		mg/kg	0.94	0.19	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Cobalt, Total	13		mg/kg	1.9	0.47	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Copper, Total	7.4		mg/kg	0.94	0.19	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Iron, Total	15000		mg/kg	4.7	1.9	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Lead, Total	22		mg/kg	4.7	0.19	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Magnesium, Total	1100		mg/kg	9.4	0.94	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Manganese, Total	1800		mg/kg	0.94	0.19	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Mercury, Total	0.82		mg/kg	0.08	0.02	1	07/16/15 03:53	07/16/15 11:55	EPA 7471B	1,7471B	DB
Nickel, Total	9.8		mg/kg	2.4	0.38	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Potassium, Total	470		mg/kg	240	38.	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Selenium, Total	ND		mg/kg	1.9	0.28	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Silver, Total	0.33	J	mg/kg	0.94	0.19	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Sodium, Total	ND		mg/kg	190	28.	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Thallium, Total	ND		mg/kg	1.9	0.38	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Vanadium, Total	22		mg/kg	0.94	0.09	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT
Zinc, Total	29		mg/kg	4.7	0.66	2	07/14/15 08:20	07/16/15 19:37	EPA 3050B	1,6010C	TT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG802389-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Antimony, Total	ND		mg/kg	2.0	0.32	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Arsenic, Total	ND		mg/kg	0.40	0.08	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Barium, Total	ND		mg/kg	0.40	0.12	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Beryllium, Total	ND		mg/kg	0.20	0.04	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Cadmium, Total	ND		mg/kg	0.40	0.03	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Calcium, Total	1.6	J	mg/kg	4.0	1.2	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Chromium, Total	ND		mg/kg	0.40	0.08	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Cobalt, Total	ND		mg/kg	0.80	0.20	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Copper, Total	0.11	J	mg/kg	0.40	0.08	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Iron, Total	ND		mg/kg	2.0	0.80	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Lead, Total	ND		mg/kg	2.0	0.08	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Magnesium, Total	ND		mg/kg	4.0	0.40	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Manganese, Total	ND		mg/kg	0.40	0.08	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Nickel, Total	ND		mg/kg	1.0	0.16	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Potassium, Total	ND		mg/kg	100	16.	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Selenium, Total	ND		mg/kg	0.80	0.12	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Silver, Total	ND		mg/kg	0.40	0.08	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Sodium, Total	ND		mg/kg	80	12.	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Thallium, Total	ND		mg/kg	0.80	0.16	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Vanadium, Total	ND		mg/kg	0.40	0.04	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT
Zinc, Total	ND		mg/kg	2.0	0.28	1	07/14/15 08:20	07/16/15 17:21	1,6010C	TT

### Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG803151-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	07/16/15 03:53	07/16/15 11:04	1,7471B	DB



**Project Name:** BUZZARD POINT

**Lab Number:** L1516001

**Project Number:** 40223-002

**Report Date:** 07/20/15

## **Method Blank Analysis Batch Quality Control**

### **Prep Information**

---

Digestion Method: EPA 7471B



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG802389-2 SRM Lot Number: D088-540								
Aluminum, Total	88		-		48-151	-		
Antimony, Total	150		-		1-208	-		
Arsenic, Total	96		-		79-121	-		
Barium, Total	94		-		83-117	-		
Beryllium, Total	100		-		83-117	-		
Cadmium, Total	94		-		83-117	-		
Calcium, Total	92		-		81-119	-		
Chromium, Total	92		-		80-120	-		
Cobalt, Total	92		-		84-115	-		
Copper, Total	90		-		81-118	-		
Iron, Total	103		-		45-155	-		
Lead, Total	98		-		81-117	-		
Magnesium, Total	88		-		76-124	-		
Manganese, Total	101		-		81-118	-		
Nickel, Total	93		-		83-117	-		
Potassium, Total	93		-		71-129	-		
Selenium, Total	102		-		78-122	-		
Silver, Total	93		-		75-124	-		
Sodium, Total	95		-		72-127	-		
Thallium, Total	95		-		80-120	-		
Vanadium, Total	95		-		78-122	-		

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT

**Project Number:** 40223-002

**Lab Number:** L1516001

**Report Date:** 07/20/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG802389-2 SRM Lot Number: D088-540					
Zinc, Total	97	-	82-118	-	
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG803151-2 SRM Lot Number: D088-540					
Mercury, Total	107	-	72-128	-	

### Matrix Spike Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG802389-4 QC Sample: L1516001-01 Client ID: DP-065-SO-010-01												
Aluminum, Total	9800	172	13000	1860	Q	-	-		75-125	-		20
Antimony, Total	ND	43	27	63	Q	-	-		75-125	-		20
Arsenic, Total	2.5	10.3	11	82		-	-		75-125	-		20
Barium, Total	71.	172	230	92		-	-		75-125	-		20
Beryllium, Total	0.55	4.3	4.6	94		-	-		75-125	-		20
Cadmium, Total	0.15J	4.38	4.5	103		-	-		75-125	-		20
Calcium, Total	2000	860	2700	81		-	-		75-125	-		20
Chromium, Total	16.	17.2	32	93		-	-		75-125	-		20
Cobalt, Total	8.5	43	48	92		-	-		75-125	-		20
Copper, Total	14.	21.5	34	93		-	-		75-125	-		20
Iron, Total	21000	86	22000	1160	Q	-	-		75-125	-		20
Lead, Total	46.	43.8	82	82		-	-		75-125	-		20
Magnesium, Total	1000	860	2000	116		-	-		75-125	-		20
Manganese, Total	400	43	380	0	Q	-	-		75-125	-		20
Nickel, Total	11.	43	49	88		-	-		75-125	-		20
Potassium, Total	510	860	1400	104		-	-		75-125	-		20
Selenium, Total	ND	10.3	8.9	86		-	-		75-125	-		20
Silver, Total	ND	25.8	23	89		-	-		75-125	-		20
Sodium, Total	30.J	860	870	101		-	-		75-125	-		20
Thallium, Total	ND	10.3	8.4	81		-	-		75-125	-		20
Vanadium, Total	22.	43	65	100		-	-		75-125	-		20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG802389-4 QC Sample: L1516001-01 Client ID: DP-065-SO-010-01									
Zinc, Total	44.	43	89	105	-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG803151-4 QC Sample: L1515969-15 Client ID: MS Sample									
Mercury, Total	0.12	0.152	0.33	138	Q	-	80-120	-	20

## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG802389-3 QC Sample: L1516001-01 Client ID: DP-065-SO-010-01						
Aluminum, Total	9800	12000	mg/kg	20		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	2.5	0.95	mg/kg	90	Q	20
Barium, Total	71.	68	mg/kg	4		20
Beryllium, Total	0.55	0.47	mg/kg	16		20
Cadmium, Total	0.15J	0.10J	mg/kg	NC		20
Calcium, Total	2000	1900	mg/kg	5		20
Chromium, Total	16.	16	mg/kg	0		20
Cobalt, Total	8.5	11	mg/kg	26	Q	20
Copper, Total	14.	13	mg/kg	7		20
Iron, Total	21000	22000	mg/kg	5		20
Lead, Total	46.	46	mg/kg	0		20
Magnesium, Total	1000	1200	mg/kg	18		20
Manganese, Total	400	380	mg/kg	5		20
Nickel, Total	11.	10	mg/kg	10		20
Potassium, Total	510	570	mg/kg	11		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	30.J	28J	mg/kg	NC		20

## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG802389-3 QC Sample: L1516001-01 Client ID: DP-065-SO-010-01</b>					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	22.	23	mg/kg	4	20
Zinc, Total	44.	44	mg/kg	0	20
<b>Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG803151-3 QC Sample: L1515969-15 Client ID: DUP Sample</b>					
Mercury, Total	0.12	0.56	mg/kg	129 Q	20

# **INORGANICS & MISCELLANEOUS**

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-01  
 Client ID: DP-065-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 08:20  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT





Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-02  
 Client ID: DP-065-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 08:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-03  
 Client ID: DP-065-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 08:30  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.6		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-04  
 Client ID: DP-066-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 08:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-05  
 Client ID: DP-066-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 08:55  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.3		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516001-06  
 Client ID: DP-066-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 09:00  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-07  
 Client ID: DP-067-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 09:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.6		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1516001-08  
**Client ID:** DP-067-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 09:30  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-09  
 Client ID: DP-067-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 09:35  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.2		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT





**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1516001-10  
**Client ID:** DP-068-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 10:25  
**Date Received:** 07/13/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-11  
 Client ID: DP-068-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 10:30  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-12  
 Client ID: DP-068-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 10:35  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.3		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-13  
 Client ID: DP-070-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 11:25  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-14  
 Client ID: DP-070-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 11:30  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-15  
 Client ID: DP-069-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 11:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-16  
 Client ID: DP-069-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 11:55  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-17  
 Client ID: DP-071-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 12:15  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.7		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT





Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-18  
 Client ID: DP-071-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 12:20  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Lab Number: L1516001

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-19  
 Client ID: DP-072-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 13:45  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-20  
 Client ID: DP-072-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 13:45  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	07/14/15 20:48	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-21  
 Client ID: DP-072-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 13:50  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516001-22  
 Client ID: DP-072-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 13:55  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	07/14/15 20:48	30,2540G	RT



## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-19,21 QC Batch ID: WG802659-1 QC Sample: L1516001-01 Client ID: DP-065-SO-010-01						
Solids, Total	88.2	87.5	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 20,22 QC Batch ID: WG802664-1 QC Sample: L1515815-01 Client ID: DUP Sample						
Solids, Total	92.2	92.1	%	0		20

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

## Cooler Information Custody Seal

## Cooler

A Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516001-01A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1516001-01B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-01B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-01C	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	HOLD-8260(14)
L1516001-02A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1516001-02B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-02B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-02C	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	HOLD-8260(14)

\*Values in parentheses indicate holding time in days



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516001-03A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),PA-TPH-DROD-C44(14),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1516001-03B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-03B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-03C	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	HOLD-8260(14)
L1516001-04A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516001-04B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-04B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-04C	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	HOLD-8260(14)
L1516001-05A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516001-05B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-05B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-05C	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	HOLD-8260(14)
L1516001-06A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516001-06B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-06B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-06C	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	HOLD-8260(14)
L1516001-07A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516001-07B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-07B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-07C	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	HOLD-8260(14)
L1516001-08A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516001-08B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-08B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-08C	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	HOLD-8260(14)
L1516001-09A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516001-09B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-09B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)

\*Values in parentheses indicate holding time in days





Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516001-09C	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	HOLD-8260(14)
L1516001-10A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516001-10B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516001-10B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-11A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516001-11B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516001-11B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-12A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516001-12B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516001-12B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-13A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1516001-13B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516001-13B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-14A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1516001-14B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516001-14B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-15A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1516001-15B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516001-15B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-16A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1516001-16B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516001-16B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-17A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1516001-17B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516001-17B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-18A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1516001-18B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516001-18B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-19A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516001-19B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)

\*Values in parentheses indicate holding time in days



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516001

Report Date: 07/20/15

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516001-19B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-20A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14),TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516001-20A9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-20B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-21A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516001-21B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516001-21B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)
L1516001-22A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516001-22B	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516001-22B9	Vial MeOH preserved split	A	N/A	4.5	Y	Absent	PA-TPH-GRO(14)

**Container Comments**

L1516001-01A

L1516001-02A

L1516001-03A

\*Values in parentheses indicate holding time in days



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCS D	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

#### Data Qualifiers

- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516001  
**Report Date:** 07/20/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

Last revised December 16, 2014

---

**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

---

**The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:**

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

---

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

# CHAIN OF CUSTODY

PAGE 1 OF 3



WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

Date Rec'd in Lab: 7/14/15

ALPHA Job #: L1516001

**Client Information**  
Client: Haley + Aldrich  
Address: 5333 Mission Center Rd. San Diego, CA 92108  
Phone: 619-285-7122  
Fax: \_\_\_\_\_  
Email: dkennard@haleyaldrich.com  
 These samples have been previously analyzed by Alpha

**Project Information**  
Project Name: \_\_\_\_\_  
Project Location: \_\_\_\_\_  
Project #: 40223-002  
Project Manager: \_\_\_\_\_  
ALPHA Quote #: \_\_\_\_\_  
**Turn-Around Time**  
 Standard       RUSH (only confirmed if pre-approved!)  
Date Due: \_\_\_\_\_      Time: \_\_\_\_\_

**Report Information - Data Deliverables**  
 FAX       EMAIL  
 ADEx       Add'l Deliverables

**Billing Information**  
 Same as Client info      PO #: \_\_\_\_\_

**Regulatory Requirements/Report Limits**

State /Fed Program: \_\_\_\_\_      Criteria: \_\_\_\_\_

Other Project Specific Requirements/Comments/Detection Limits:  
\_\_\_\_\_

ANALYSIS  
 TAL METALS (EPA 6010)  
 TPH C6+0 C44 (EPA 8015)  
 PAHs EPA (8270C)

**SAMPLE HANDLING**  
Filtration \_\_\_\_\_  
 Done  
 Not needed  
 Lab to do  
Preservation \_\_\_\_\_  
 Lab to do  
(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials								Sample Specific Comments		
		Date	Time												
<u>16001-01</u>	<u>DP-065-50-010-01</u>	<u>7/13/15</u>	<u>0820</u>			X	X								<u>3</u>
<u>02</u>	<u>DP-065-50-050-01</u>		<u>0825</u>			X	X								<u>3</u>
<u>03</u>	<u>DP-065-50-100-01</u>		<u>0830</u>			X	X								<u>3</u>
<u>04</u>	<u>DP-066-50-010-01</u>		<u>0850</u>			X	X								<u>3</u>
<u>05</u>	<u>DP-066-50-050-01</u>		<u>0855</u>			X	X								<u>3</u>
<u>06</u>	<u>DP-066-50-100-01</u>		<u>0900</u>			X	X								<u>3</u>
<u>07</u>	<u>DP-067-50-010-01</u>		<u>0925</u>			X	X								<u>3</u>
<u>08</u>	<u>DP-067-50-050-01</u>		<u>0930</u>			X	X								<u>3</u>
<u>09</u>	<u>DP-067-50-100-01</u>		<u>0935</u>			X	X								<u>3</u>

Container Type: \_\_\_\_\_  
Preservative: \_\_\_\_\_

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>7/13/15/1420</u>	<u>[Signature]</u>	<u>7/13/15/1420</u>
<u>[Signature]</u>	<u>7/13/15/1200</u>	<u>[Signature]</u>	<u>7/13/15/1200</u>
<u>[Signature]</u>	<u>7/13/15 2010</u>	<u>[Signature]</u>	<u>7-13-15 2010</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.









## ANALYTICAL REPORT

Lab Number:	L1516214
Client:	Haley & Aldrich, Inc. 5333 Mission Center Rd San Diego, CA 92108
ATTN:	Dana Kennard
Phone:	(619) 285-7108
Project Name:	BUZZARD POINT
Project Number:	40223-002
Report Date:	07/20/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1516214-01	DP-079-SO-010-01	SOIL	Not Specified	07/14/15 09:30	07/14/15
L1516214-02	DP-079-SO-050-01	SOIL	Not Specified	07/14/15 09:35	07/14/15
L1516214-03	DP-080-SO-010-01	SOIL	Not Specified	07/14/15 09:55	07/14/15
L1516214-04	DP-080-SO-050-01	SOIL	Not Specified	07/14/15 10:00	07/14/15
L1516214-05	DP-080-SO-010-02	SOIL	Not Specified	07/14/15 09:55	07/14/15
L1516214-06	DP-081-SO-010-01	SOIL	Not Specified	07/14/15 10:25	07/14/15
L1516214-07	DP-081-SO-050-01	SOIL	Not Specified	07/14/15 10:30	07/14/15
L1516214-08	DP-082-SO-010-01	SOIL	Not Specified	07/14/15 11:10	07/14/15
L1516214-09	DP-082-SO-050-01	SOIL	Not Specified	07/14/15 11:15	07/14/15
L1516214-10	DP-083-SO-010-01	SOIL	Not Specified	07/14/15 12:10	07/14/15
L1516214-11	DP-083-SO-050-01	SOIL	Not Specified	07/14/15 12:15	07/14/15
L1516214-12	DP-084-SO-010-01	SOIL	Not Specified	07/14/15 12:45	07/14/15
L1516214-13	EB01-071415	WATER	Not Specified	07/14/15 14:40	07/14/15

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

---

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

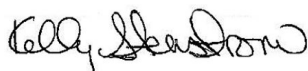
**Case Narrative (continued)**

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 07/20/15

# ORGANICS

# PCBS

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1516214-01  
**Client ID:** DP-079-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/16/15 07:40  
**Analyst:** JW  
**Percent Solids:** 87%

**Date Collected:** 07/14/15 09:30  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0369	0.00291	1	A
Aroclor 1221	ND		mg/kg	0.0369	0.00340	1	A
Aroclor 1232	ND		mg/kg	0.0369	0.00432	1	A
Aroclor 1242	ND		mg/kg	0.0369	0.00451	1	A
Aroclor 1248	ND		mg/kg	0.0369	0.00311	1	A
Aroclor 1254	ND		mg/kg	0.0369	0.00303	1	A
Aroclor 1260	ND		mg/kg	0.0369	0.00281	1	A
Aroclor 1262	ND		mg/kg	0.0369	0.00183	1	A
Aroclor 1268	ND		mg/kg	0.0369	0.00535	1	A
PCBs, Total	ND		mg/kg	0.0369	0.00183	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	90		30-150	B



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1516214-02  
**Client ID:** DP-079-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/16/15 07:56  
**Analyst:** JW  
**Percent Solids:** 89%

**Date Collected:** 07/14/15 09:35  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0365	0.00288	1	A
Aroclor 1221	ND		mg/kg	0.0365	0.00336	1	A
Aroclor 1232	ND		mg/kg	0.0365	0.00428	1	A
Aroclor 1242	ND		mg/kg	0.0365	0.00447	1	A
Aroclor 1248	ND		mg/kg	0.0365	0.00308	1	A
Aroclor 1254	ND		mg/kg	0.0365	0.00300	1	A
Aroclor 1260	ND		mg/kg	0.0365	0.00278	1	A
Aroclor 1262	ND		mg/kg	0.0365	0.00181	1	A
Aroclor 1268	ND		mg/kg	0.0365	0.00529	1	A
PCBs, Total	ND		mg/kg	0.0365	0.00181	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	108		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516214-03  
 Client ID: DP-080-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 07/16/15 08:12  
 Analyst: JW  
 Percent Solids: 88%

Date Collected: 07/14/15 09:55  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 15:45  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 07/16/15  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0358	0.00283	1	A
Aroclor 1221	ND		mg/kg	0.0358	0.00330	1	A
Aroclor 1232	ND		mg/kg	0.0358	0.00419	1	A
Aroclor 1242	ND		mg/kg	0.0358	0.00438	1	A
Aroclor 1248	ND		mg/kg	0.0358	0.00302	1	A
Aroclor 1254	ND		mg/kg	0.0358	0.00294	1	A
Aroclor 1260	ND		mg/kg	0.0358	0.00273	1	A
Aroclor 1262	ND		mg/kg	0.0358	0.00178	1	A
Aroclor 1268	ND		mg/kg	0.0358	0.00519	1	A
PCBs, Total	ND		mg/kg	0.0358	0.00178	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	102		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1516214-04  
**Client ID:** DP-080-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/16/15 08:28  
**Analyst:** JW  
**Percent Solids:** 86%

**Date Collected:** 07/14/15 10:00  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0367	0.00290	1	A
Aroclor 1221	ND		mg/kg	0.0367	0.00339	1	A
Aroclor 1232	ND		mg/kg	0.0367	0.00430	1	A
Aroclor 1242	ND		mg/kg	0.0367	0.00450	1	A
Aroclor 1248	ND		mg/kg	0.0367	0.00310	1	A
Aroclor 1254	ND		mg/kg	0.0367	0.00302	1	A
Aroclor 1260	ND		mg/kg	0.0367	0.00280	1	A
Aroclor 1262	ND		mg/kg	0.0367	0.00182	1	A
Aroclor 1268	ND		mg/kg	0.0367	0.00533	1	A
PCBs, Total	ND		mg/kg	0.0367	0.00182	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	106		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1516214-05  
**Client ID:** DP-080-SO-010-02  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/16/15 07:24  
**Analyst:** JW  
**Percent Solids:** 88%

**Date Collected:** 07/14/15 09:55  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/15/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/15/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0357	0.00282	1	A
Aroclor 1221	ND		mg/kg	0.0357	0.00330	1	A
Aroclor 1232	ND		mg/kg	0.0357	0.00419	1	A
Aroclor 1242	ND		mg/kg	0.0357	0.00438	1	A
Aroclor 1248	ND		mg/kg	0.0357	0.00302	1	A
Aroclor 1254	ND		mg/kg	0.0357	0.00294	1	A
Aroclor 1260	ND		mg/kg	0.0357	0.00272	1	A
Aroclor 1262	ND		mg/kg	0.0357	0.00177	1	A
Aroclor 1268	ND		mg/kg	0.0357	0.00518	1	A
PCBs, Total	ND		mg/kg	0.0357	0.00177	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	118		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1516214-06  
**Client ID:** DP-081-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/16/15 08:44  
**Analyst:** JW  
**Percent Solids:** 82%

**Date Collected:** 07/14/15 10:25  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0390	0.00308	1	A
Aroclor 1221	ND		mg/kg	0.0390	0.00360	1	A
Aroclor 1232	ND		mg/kg	0.0390	0.00457	1	A
Aroclor 1242	ND		mg/kg	0.0390	0.00478	1	A
Aroclor 1248	ND		mg/kg	0.0390	0.00329	1	A
Aroclor 1254	ND		mg/kg	0.0390	0.00321	1	A
Aroclor 1260	ND		mg/kg	0.0390	0.00297	1	A
Aroclor 1262	ND		mg/kg	0.0390	0.00194	1	A
Aroclor 1268	ND		mg/kg	0.0390	0.00566	1	A
PCBs, Total	ND		mg/kg	0.0390	0.00194	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	95		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1516214-07  
**Client ID:** DP-081-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/16/15 08:59  
**Analyst:** JW  
**Percent Solids:** 89%

**Date Collected:** 07/14/15 10:30  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0355	0.00281	1	A
Aroclor 1221	ND		mg/kg	0.0355	0.00328	1	A
Aroclor 1232	ND		mg/kg	0.0355	0.00416	1	A
Aroclor 1242	ND		mg/kg	0.0355	0.00435	1	A
Aroclor 1248	ND		mg/kg	0.0355	0.00300	1	A
Aroclor 1254	ND		mg/kg	0.0355	0.00292	1	A
Aroclor 1260	ND		mg/kg	0.0355	0.00271	1	A
Aroclor 1262	ND		mg/kg	0.0355	0.00176	1	A
Aroclor 1268	ND		mg/kg	0.0355	0.00515	1	A
PCBs, Total	ND		mg/kg	0.0355	0.00176	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	98		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1516214-08  
**Client ID:** DP-082-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/16/15 09:15  
**Analyst:** JW  
**Percent Solids:** 89%

**Date Collected:** 07/14/15 11:10  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0370	0.00292	1	A
Aroclor 1221	ND		mg/kg	0.0370	0.00341	1	A
Aroclor 1232	ND		mg/kg	0.0370	0.00434	1	A
Aroclor 1242	ND		mg/kg	0.0370	0.00453	1	A
Aroclor 1248	ND		mg/kg	0.0370	0.00312	1	A
Aroclor 1254	0.00955	J	mg/kg	0.0370	0.00304	1	B
Aroclor 1260	0.00950	J	mg/kg	0.0370	0.00282	1	B
Aroclor 1262	ND		mg/kg	0.0370	0.00184	1	A
Aroclor 1268	ND		mg/kg	0.0370	0.00537	1	A
PCBs, Total	0.0190	J	mg/kg	0.0370	0.00184	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	97		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1516214-09  
**Client ID:** DP-082-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/16/15 09:31  
**Analyst:** JW  
**Percent Solids:** 88%

**Date Collected:** 07/14/15 11:15  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0363	0.00287	1	A
Aroclor 1221	ND		mg/kg	0.0363	0.00335	1	A
Aroclor 1232	ND		mg/kg	0.0363	0.00426	1	A
Aroclor 1242	ND		mg/kg	0.0363	0.00445	1	A
Aroclor 1248	ND		mg/kg	0.0363	0.00307	1	A
Aroclor 1254	ND		mg/kg	0.0363	0.00299	1	A
Aroclor 1260	ND		mg/kg	0.0363	0.00277	1	A
Aroclor 1262	ND		mg/kg	0.0363	0.00180	1	A
Aroclor 1268	ND		mg/kg	0.0363	0.00527	1	A
PCBs, Total	ND		mg/kg	0.0363	0.00180	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	99		30-150	B



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1516214-10  
**Client ID:** DP-083-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/16/15 09:47  
**Analyst:** JW  
**Percent Solids:** 89%

**Date Collected:** 07/14/15 12:10  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0359	0.00284	1	A
Aroclor 1221	ND		mg/kg	0.0359	0.00331	1	A
Aroclor 1232	ND		mg/kg	0.0359	0.00421	1	A
Aroclor 1242	ND		mg/kg	0.0359	0.00440	1	A
Aroclor 1248	ND		mg/kg	0.0359	0.00303	1	A
Aroclor 1254	ND		mg/kg	0.0359	0.00295	1	A
Aroclor 1260	ND		mg/kg	0.0359	0.00274	1	A
Aroclor 1262	ND		mg/kg	0.0359	0.00178	1	A
Aroclor 1268	ND		mg/kg	0.0359	0.00521	1	A
PCBs, Total	ND		mg/kg	0.0359	0.00178	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	101		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1516214-11  
**Client ID:** DP-083-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/16/15 13:31  
**Analyst:** JW  
**Percent Solids:** 86%

**Date Collected:** 07/14/15 12:15  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0373	0.00295	1	A
Aroclor 1221	ND		mg/kg	0.0373	0.00344	1	A
Aroclor 1232	ND		mg/kg	0.0373	0.00437	1	A
Aroclor 1242	ND		mg/kg	0.0373	0.00457	1	A
Aroclor 1248	ND		mg/kg	0.0373	0.00315	1	A
Aroclor 1254	0.0118	J	mg/kg	0.0373	0.00307	1	A
Aroclor 1260	0.0255	J	mg/kg	0.0373	0.00284	1	B
Aroclor 1262	ND		mg/kg	0.0373	0.00185	1	A
Aroclor 1268	ND		mg/kg	0.0373	0.00541	1	A
PCBs, Total	0.0373	J	mg/kg	0.0373	0.00185	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	99		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1516214-12  
**Client ID:** DP-084-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/16/15 10:03  
**Analyst:** JW  
**Percent Solids:** 88%

**Date Collected:** 07/14/15 12:45  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:45  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0359	0.00284	1	A
Aroclor 1221	ND		mg/kg	0.0359	0.00331	1	A
Aroclor 1232	ND		mg/kg	0.0359	0.00421	1	A
Aroclor 1242	ND		mg/kg	0.0359	0.00440	1	A
Aroclor 1248	ND		mg/kg	0.0359	0.00303	1	A
Aroclor 1254	0.00758	J	mg/kg	0.0359	0.00295	1	A
Aroclor 1260	0.0137	J	mg/kg	0.0359	0.00274	1	B
Aroclor 1262	ND		mg/kg	0.0359	0.00178	1	A
Aroclor 1268	ND		mg/kg	0.0359	0.00521	1	A
PCBs, Total	0.0213	J	mg/kg	0.0359	0.00178	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	108		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

**SAMPLE RESULTS**

**Lab ID:** L1516214-13  
**Client ID:** EB01-071415  
**Sample Location:** Not Specified  
**Matrix:** Water  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/17/15 23:11  
**Analyst:** JT

**Date Collected:** 07/14/15 14:40  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 07/16/15 01:41  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/l	0.250	0.066	1	A
Aroclor 1221	ND		ug/l	0.250	0.064	1	A
Aroclor 1232	ND		ug/l	0.250	0.037	1	A
Aroclor 1242	ND		ug/l	0.250	0.072	1	A
Aroclor 1248	ND		ug/l	0.250	0.061	1	A
Aroclor 1254	ND		ug/l	0.250	0.041	1	A
Aroclor 1260	ND		ug/l	0.250	0.038	1	A
Aroclor 1262	ND		ug/l	0.250	0.035	1	A
Aroclor 1268	ND		ug/l	0.250	0.045	1	A
PCBs, Total	ND		ug/l	0.250	0.035	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	44		30-150	B

Project Name: BUZZARD POINT

Lab Number: L1516214

Project Number: 40223-002

Report Date: 07/20/15

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 07/16/15 12:59  
Analyst: JW

Extraction Method: EPA 3546  
Extraction Date: 07/15/15 15:45  
Cleanup Method: EPA 3665A  
Cleanup Date: 07/15/15  
Cleanup Method: EPA 3660B  
Cleanup Date: 07/15/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-12 Batch: WG803006-1						
Aroclor 1016	ND		mg/kg	0.0313	0.00247	A
Aroclor 1221	ND		mg/kg	0.0313	0.00289	A
Aroclor 1232	ND		mg/kg	0.0313	0.00367	A
Aroclor 1242	ND		mg/kg	0.0313	0.00383	A
Aroclor 1248	ND		mg/kg	0.0313	0.00264	A
Aroclor 1254	ND		mg/kg	0.0313	0.00258	A
Aroclor 1260	ND		mg/kg	0.0313	0.00239	A
Aroclor 1262	ND		mg/kg	0.0313	0.00155	A
Aroclor 1268	ND		mg/kg	0.0313	0.00454	A
PCBs, Total	ND		mg/kg	0.0313	0.00155	A

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	108		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		30-150	B
Decachlorobiphenyl	121		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

**Method Blank Analysis  
 Batch Quality Control**

**Analytical Method:** 1,8082A  
**Analytical Date:** 07/17/15 15:38  
**Analyst:** JT

**Extraction Method:** EPA 3510C  
**Extraction Date:** 07/16/15 01:41  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 13 Batch: WG803159-1						
Aroclor 1016	ND		ug/l	0.250	0.066	A
Aroclor 1221	ND		ug/l	0.250	0.064	A
Aroclor 1232	ND		ug/l	0.250	0.037	A
Aroclor 1242	ND		ug/l	0.250	0.072	A
Aroclor 1248	ND		ug/l	0.250	0.061	A
Aroclor 1254	ND		ug/l	0.250	0.041	A
Aroclor 1260	ND		ug/l	0.250	0.038	A
Aroclor 1262	ND		ug/l	0.250	0.035	A
Aroclor 1268	ND		ug/l	0.250	0.045	A
PCBs, Total	ND		ug/l	0.250	0.035	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	41		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	46		30-150	B



## Lab Control Sample Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516214

Report Date: 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-12 Batch: WG803006-2 WG803006-3									
Aroclor 1016	80		87		40-140	8		50	A
Aroclor 1260	81		85		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		95		30-150	A
Decachlorobiphenyl	93		92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		99		30-150	B
Decachlorobiphenyl	107		116		30-150	B

## Lab Control Sample Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Lab Number: L1516214

Project Number: 40223-002

Report Date: 07/20/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 13 Batch: WG803159-2 WG803159-3									
Aroclor 1016	68		75		40-140	10		50	A
Aroclor 1260	55		59		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		71		30-150	A
Decachlorobiphenyl	51		56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		65		30-150	B
Decachlorobiphenyl	51		55		30-150	B



# **INORGANICS & MISCELLANEOUS**

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516214

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516214-01  
 Client ID: DP-079-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/14/15 09:30  
 Date Received: 07/14/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	07/15/15 12:45	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1516214

Project Number: 40223-002

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516214-02  
 Client ID: DP-079-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/14/15 09:35  
 Date Received: 07/14/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	07/15/15 12:45	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516214

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516214-03  
 Client ID: DP-080-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/14/15 09:55  
 Date Received: 07/14/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	07/15/15 12:45	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516214

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516214-04  
 Client ID: DP-080-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/14/15 10:00  
 Date Received: 07/14/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.7		%	0.100	NA	1	-	07/15/15 12:45	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516214

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516214-05  
 Client ID: DP-080-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/14/15 09:55  
 Date Received: 07/14/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	07/15/15 22:19	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516214

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516214-06  
 Client ID: DP-081-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/14/15 10:25  
 Date Received: 07/14/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	07/15/15 12:45	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1516214

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516214-07  
 Client ID: DP-081-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/14/15 10:30  
 Date Received: 07/14/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.9		%	0.100	NA	1	-	07/15/15 12:45	30,2540G	AB





Project Name: BUZZARD POINT

Lab Number: L1516214

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516214-08  
 Client ID: DP-082-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/14/15 11:10  
 Date Received: 07/14/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	07/15/15 12:45	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516214

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516214-09  
 Client ID: DP-082-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/14/15 11:15  
 Date Received: 07/14/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	07/15/15 12:45	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516214

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516214-10  
 Client ID: DP-083-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/14/15 12:10  
 Date Received: 07/14/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	07/15/15 12:45	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1516214

Project Number: 40223-002

Report Date: 07/20/15

## SAMPLE RESULTS

Lab ID: L1516214-11  
 Client ID: DP-083-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/14/15 12:15  
 Date Received: 07/14/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	07/15/15 12:45	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516214

Report Date: 07/20/15

**SAMPLE RESULTS**

Lab ID: L1516214-12  
 Client ID: DP-084-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/14/15 12:45  
 Date Received: 07/14/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	07/15/15 12:45	30,2540G	AB



## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516214

Report Date: 07/20/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04,06-12 QC Batch ID: WG802907-1 QC Sample: L1516031-01 Client ID: DUP Sample						
Solids, Total	87.9	88.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG803121-1 QC Sample: L1515475-04 Client ID: DUP Sample						
Solids, Total	23.8	23.4	%	2		20

Project Name: BUZZARD POINT

Lab Number: L1516214

Project Number: 40223-002

Report Date: 07/20/15

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

## Cooler Information Custody Seal

## Cooler

A Absent  
B Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516214-01A	Vial Large Septa unpreserved (4o	B	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516214-01B	Glass 250ml/8oz unpreserved	B	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516214-02A	Vial Large Septa unpreserved (4o	B	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516214-02B	Glass 250ml/8oz unpreserved	B	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516214-03A	Vial Large Septa unpreserved (4o	B	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516214-03B	Glass 250ml/8oz unpreserved	B	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516214-04A	Vial Large Septa unpreserved (4o	B	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516214-04B	Glass 250ml/8oz unpreserved	B	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516214-05A	Glass 250ml/8oz unpreserved	B	N/A	3.1	Y	Absent	HOLD-8260(14),PA-8082(14),TS(7)
L1516214-06A	Vial Large Septa unpreserved (4o	B	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516214-06B	Glass 250ml/8oz unpreserved	B	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516214-07A	Vial Large Septa unpreserved (4o	B	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516214-07B	Glass 250ml/8oz unpreserved	B	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516214-08A	Vial Large Septa unpreserved (4o	B	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516214-08B	Glass 250ml/8oz unpreserved	B	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516214-09A	Vial Large Septa unpreserved (4o	B	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516214-09B	Glass 250ml/8oz unpreserved	B	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516214-10A	Vial Large Septa unpreserved (4o	B	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516214-10B	Glass 250ml/8oz unpreserved	B	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516214-11A	Vial Large Septa unpreserved (4o	B	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516214-11B	Glass 250ml/8oz unpreserved	B	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516214-12A	Vial Large Septa unpreserved (4o	B	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516214-12B	Glass 250ml/8oz unpreserved	B	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516214-13A	Vial HCl preserved	A	N/A	4.4	Y	Absent	HOLD-CONTINGENCY(7)
L1516214-13B	Vial HCl preserved	A	N/A	4.4	Y	Absent	HOLD-CONTINGENCY(7)

\*Values in parentheses indicate holding time in days

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516214

Report Date: 07/20/15

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516214-13C	Vial HCl preserved	A	N/A	4.4	Y	Absent	HOLD-CONTINGENCY(7)
L1516214-13D	Plastic 250ml HNO3 preserved	A	N/A	4.4	Y	Absent	HOLD-CONTINGENCY(7)
L1516214-13E	Vial HCl preserved	A	N/A	4.4	Y	Absent	HOLD-CONTINGENCY(7)
L1516214-13G	Amber 1000ml unpreserved	A	7	4.4	Y	Absent	HOLD-CONTINGENCY(7),PA-8082(7)
L1516214-13I	Amber 1000ml unpreserved	A	7	4.4	Y	Absent	HOLD-CONTINGENCY(7)
L1516214-13K	Amber 1000ml unpreserved	A	7	4.4	Y	Absent	HOLD-CONTINGENCY(7)

\*Values in parentheses indicate holding time in days



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

#### Data Qualifiers

- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516214  
**Report Date:** 07/20/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

Last revised December 16, 2014

---

### The following analytes are not included in our NELAP Scope of Accreditation:

#### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

#### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

---

### The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

#### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

#### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

---

For a complete listing of analytes and methods, please contact your Alpha Project Manager.





# CHAIN OF CUSTODY

PAGE 1 OF 2

WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

Date Rec'd in Lab: 7/15/15

ALPHA Job #: L1516214

### Client Information

Client: Haley + Aldrich  
Address: 5333 Mission Center Rd  
San Diego, CA 92108  
Phone: 619-285-7122  
Fax:

### Project Information

Project Name:  
Project Location:  
Project #: 40223-002  
Project Manager:  
ALPHA Quote #:

### Report Information - Data Deliverables

FAX  EMAIL  
 ADEX  Add'l Deliverables

### Billing Information

Same as Client info PO #:

Email: dkennard@haleyaldrich.com

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved)  
Date Due: Time:

### Regulatory Requirements/Report Limits

State /Fed Program Criteria

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS

PCBs (EPA 8082)

VOCs (B260B)

SAMPLE HANDLING

Filtration \_\_\_\_\_

Done

Not needed

Lab to do

Preservation \_\_\_\_\_

Lab to do

(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TOTAL # BOTTLES
		Date	Time			
<del>FB01-71415</del>	<del></del>	<del>7/14/15</del>	<del>0830</del>	<del>W</del>	<del>AF</del>	<del>3</del>
16214-01	DP079-50-010-01		0930	SO	X	2
02	DP-079-50-050-01		0935		X	2
03	DP-080-50-010-01		0955		X	2
04	DP-080-50-050-01		1000		X	2
05	DP-080-50-010-02		0955		X	1
06	DP-081-50-010-01		1025		X	2
07	DP-081-50-050-01		1030		X	2
08	DP-082-50-010-01		1110		X	2
09	DP-082-50-050-01		1115		X	2

Container Type  
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
<u>Jeff King</u>	<u>7/14/15</u>	<u>Tommy Johnson</u>	<u>7/14/15 3:20pm</u>
<u>Anthony Mangano</u>	<u>7/14/15 2:10</u>	<u>Tommy Johnson</u>	<u>7/14/15 1:52</u>
<u>Tommy Johnson</u>	<u>7/14/15 2:10</u>	<u>Tommy Johnson</u>	<u>7/14/15 2:10</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.





# CHAIN OF CUSTODY

PAGE 2 OF 2

WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

Date Rec'd in Lab: 7/15/15

ALPHA Job #: L1516214

**Client Information**

Client: Haley + Aldrich

Address: 5333 Mission Center Rd  
San Diego, CA 92108

Phone: 619-285-7122

Fax:

Email: kennard@haleyaldrich.com

These samples have been previously analyzed by Alpha

**Project Information**

Project Name:

Project Location:

Project #: 40223-002

Project Manager:

ALPHA Quote #:

**Turn-Around Time**

Standard  RUSH (only confirmed if pre-approved!)

Date Due: \_\_\_\_\_ Time: \_\_\_\_\_

**Report Information - Data Deliverables**

FAX  EMAIL

ADEx  Add'l Deliverables

**Billing Information**

Same as Client info PO #:

**Regulatory Requirements/Report Limits**

State / Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

**ANALYSIS**

PCBs (EPA 8082)

TPH (EPA 8015)

PAHs (EPA 8270E)

TAL Metals (6010)

VOC (8260B)

**SAMPLE HANDLING**

Filtration \_\_\_\_\_

Done

Not needed

Lab to do

Lab to do

(Please specify below)

**TOTAL # BOTTLES**

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS					Sample Specific Comments	TOTAL # BOTTLES	
		Date	Time			PCBs (EPA 8082)	TPH (EPA 8015)	PAHs (EPA 8270E)	TAL Metals (6010)	VOC (8260B)			
16214-10	DP-083-50-010-01	7/14/15	1210	SO	AF	X							2
11	DP-083-50-050-01	7/14/15	1215	SO	AF	X							2
12	DP-084-50-010-01	7/14/15	1245	SO	AF	X							2
	<del>DP-084-50-050-01</del>		<del>1250</del>			<del>X</del>							<del>2</del>
13	EB01-71415	7/14/15	1440	W	AF	X	X	X	X	X			

Container Type	
Preservative	

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>7/14/15</u>	<u>[Signature]</u> (CAL)	<u>7/14/15 3:20pm</u>
<u>[Signature]</u>	<u>7/14/15 1830</u>	<u>[Signature]</u>	<u>7/14/15 10:00</u>
<u>[Signature]</u>	<u>7/14/15 2100</u>	<u>[Signature]</u>	<u>7-14-15 2100</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.





## ANALYTICAL REPORT

Lab Number:	L1516217
Client:	Haley & Aldrich, Inc. 5333 Mission Center Rd San Diego, CA 92108
ATTN:	Dana Kennard
Phone:	(619) 285-7108
Project Name:	BUZZARD POINT
Project Number:	40223-002
Report Date:	07/21/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1516217-01	DP-073-SO-010-01	SOIL	Not Specified	07/13/15 15:00	07/14/15
L1516217-02	DP-073-SO-050-01	SOIL	Not Specified	07/13/15 15:05	07/14/15
L1516217-03	DP-073-SO-100-01	SOIL	Not Specified	07/13/15 15:10	07/14/15
L1516217-04	DP-074-SO-010-01	SOIL	Not Specified	07/13/15 15:25	07/14/15
L1516217-05	DP-074-SO-010-02	SOIL	Not Specified	07/13/15 15:25	07/14/15
L1516217-06	DP-074-SO-050-01	SOIL	Not Specified	07/13/15 15:30	07/14/15
L1516217-07	DP-074-SO-100-01	SOIL	Not Specified	07/13/15 15:35	07/14/15
L1516217-08	DP-075-SO-010-01	SOIL	Not Specified	07/13/15 16:00	07/14/15
L1516217-09	DP-075-SO-050-01	SOIL	Not Specified	07/13/15 16:05	07/14/15
L1516217-10	DP-075-SO-100-01	SOIL	Not Specified	07/13/15 16:10	07/14/15
L1516217-11	DP-076-SO-050-01	SOIL	Not Specified	07/13/15 16:35	07/14/15
L1516217-12	DP-076-SO-100-01	SOIL	Not Specified	07/13/15 16:40	07/14/15
L1516217-13	DP-077-SO-050-01	SOIL	Not Specified	07/13/15 16:55	07/14/15
L1516217-14	DP-077-SO-100-01	SOIL	Not Specified	07/13/15 17:00	07/14/15
L1516217-15	DP-078-SO-050-01	SOIL	Not Specified	07/13/15 17:20	07/14/15
L1516217-16	DP-078-SO-100-01	SOIL	Not Specified	07/13/15 17:25	07/14/15
L1516217-17	EB01-071315	WATER	Not Specified	07/13/15 16:00	07/14/15
L1516217-18	TB01-071315	WATER	Not Specified	07/13/15 17:06	07/14/15

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

---

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15


**Case Narrative (continued)**

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 07/21/15

# ORGANICS

# VOLATILES

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-17  
**Client ID:** EB01-071315  
**Sample Location:** Not Specified  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 07/15/15 19:20  
**Analyst:** PD

**Date Collected:** 07/13/15 16:00  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.18	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.29	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.16	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.14	1
Chloroform	ND		ug/l	0.75	0.16	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
1,4-Dioxane	ND		ug/l	250	41.	1

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-17  
**Client ID:** EB01-071315  
**Sample Location:** Not Specified

**Date Collected:** 07/13/15 16:00  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.16	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.33	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.33	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	105		70-130



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-18  
 Client ID: TB01-071315  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/15/15 19:56  
 Analyst: PD

Date Collected: 07/13/15 17:06  
 Date Received: 07/14/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.18	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.29	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.16	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.14	1
Chloroform	ND		ug/l	0.75	0.16	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	0.24	J	ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
1,4-Dioxane	ND		ug/l	250	41.	1

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-18  
**Client ID:** TB01-071315  
**Sample Location:** Not Specified

**Date Collected:** 07/13/15 17:06  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.16	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.33	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.33	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	107		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/15/15 13:17  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 17-18 Batch: WG803258-3					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.18
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.14
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.29
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.16
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene (total)	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.14
Chloroform	ND		ug/l	0.75	0.16
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Bromodichloromethane	ND		ug/l	0.50	0.19

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 1,8260C  
**Analytical Date:** 07/15/15 13:17  
**Analyst:** PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 17-18 Batch: WG803258-3					
1,4-Dioxane	ND		ug/l	250	41.
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.16
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.33
Xylene (Total)	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.17
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.33
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	2.5	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/15/15 13:17  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 17-18 Batch: WG803258-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	103		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 17-18 Batch: WG803258-1 WG803258-2								
Dichlorodifluoromethane	146		137		36-147	6		20
Chloromethane	70		62	Q	64-130	12		20
Vinyl chloride	77		71		55-140	8		20
Bromomethane	55		49		39-139	12		20
Chloroethane	108		99		55-138	9		20
Trichlorofluoromethane	93		92		62-150	1		20
1,1-Dichloroethene	100		96		61-145	4		20
Carbon disulfide	92		84		51-130	9		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	104		101		70-130	3		20
Methylene chloride	105		94		70-130	11		20
Acetone	101		92		58-148	9		20
trans-1,2-Dichloroethene	107		99		70-130	8		20
Methyl Acetate	103		97		70-130	6		20
Methyl tert butyl ether	106		101		63-130	5		20
1,1-Dichloroethane	99		93		70-130	6		20
cis-1,2-Dichloroethene	104		96		70-130	8		20
Cyclohexane	94		90		70-130	4		20
Bromochloromethane	115		107		70-130	7		20
Chloroform	97		91		70-130	6		20
Carbon tetrachloride	105		98		63-132	7		20
1,1,1-Trichloroethane	96		91		67-130	5		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 17-18 Batch: WG803258-1 WG803258-2								
2-Butanone	115		101		63-138	13		20
Benzene	109		100		70-130	9		20
1,2-Dichloroethane	98		91		70-130	7		20
Methyl cyclohexane	97		93		70-130	4		20
Trichloroethene	98		91		70-130	7		20
1,2-Dichloropropane	104		96		70-130	8		20
Bromodichloromethane	99		90		67-130	10		20
cis-1,3-Dichloropropene	104		94		70-130	10		20
Toluene	102		96		70-130	6		20
Tetrachloroethene	112		106		70-130	6		20
4-Methyl-2-pentanone	99		93		59-130	6		20
trans-1,3-Dichloropropene	108		99		70-130	9		20
1,1,2-Trichloroethane	110		101		70-130	9		20
Dibromochloromethane	112		103		63-130	8		20
1,2-Dibromoethane	108		99		70-130	9		20
2-Hexanone	76		72		57-130	5		20
Chlorobenzene	105		96		75-130	9		20
Ethylbenzene	100		91		70-130	9		20
p/m-Xylene	104		94		70-130	10		20
o-Xylene	104		94		70-130	10		20
Styrene	109		98		70-130	11		20

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 17-18 Batch: WG803258-1 WG803258-2								
Bromoform	110		100		54-136	10		20
Isopropylbenzene	89		83		70-130	7		20
1,1,2,2-Tetrachloroethane	99		92		67-130	7		20
1,3,5-Trimethylbenzene	93		85		64-130	9		20
1,2,4-Trimethylbenzene	92		86		70-130	7		20
1,3-Dichlorobenzene	98		89		70-130	10		20
1,4-Dichlorobenzene	97		89		70-130	9		20
1,2-Dichlorobenzene	99		90		70-130	10		20
1,2-Dibromo-3-chloropropane	86		78		41-144	10		20
1,2,4-Trichlorobenzene	90		84		70-130	7		20
Naphthalene	84		83		70-130	1		20
1,2,3-Trichlorobenzene	89		85		70-130	5		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	93		95		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	89		90		70-130
Dibromofluoromethane	100		101		70-130



# SEMIVOLATILES

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-01  
 Client ID: DP-073-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 13:32  
 Analyst: RC  
 Percent Solids: 83%

Date Collected: 07/13/15 15:00  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.063	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	79		30-120
4-Terphenyl-d14	72		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-02  
 Client ID: DP-073-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 13:58  
 Analyst: RC  
 Percent Solids: 84%

Date Collected: 07/13/15 15:05  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.063	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	67		30-120
4-Terphenyl-d14	59		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-03  
 Client ID: DP-073-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 14:23  
 Analyst: RC  
 Percent Solids: 83%

Date Collected: 07/13/15 15:10  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	69		30-120
4-Terphenyl-d14	63		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-04  
 Client ID: DP-074-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 14:49  
 Analyst: RC  
 Percent Solids: 84%

Date Collected: 07/13/15 15:25  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	73		30-120
4-Terphenyl-d14	60		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-05  
 Client ID: DP-074-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 15:14  
 Analyst: RC  
 Percent Solids: 85%

Date Collected: 07/13/15 15:25  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	75		30-120
4-Terphenyl-d14	73		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-06  
 Client ID: DP-074-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 15:40  
 Analyst: RC  
 Percent Solids: 84%

Date Collected: 07/13/15 15:30  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	81		30-120
4-Terphenyl-d14	71		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-07  
 Client ID: DP-074-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 16:05  
 Analyst: RC  
 Percent Solids: 84%

Date Collected: 07/13/15 15:35  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.19	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	61		18-120



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-08  
 Client ID: DP-075-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 16:31  
 Analyst: RC  
 Percent Solids: 85%

Date Collected: 07/13/15 16:00  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.061	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.062	1
Acenaphthylene	ND		mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.039	1
Fluorene	ND		mg/kg	0.19	0.055	1
Phenanthrene	ND		mg/kg	0.11	0.037	1
Anthracene	ND		mg/kg	0.11	0.032	1
Fluoranthene	ND		mg/kg	0.11	0.035	1
Pyrene	ND		mg/kg	0.11	0.037	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.037	1
Chrysene	ND		mg/kg	0.11	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.036	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.042	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.037	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	66		30-120
4-Terphenyl-d14	70		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-09  
 Client ID: DP-075-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 16:56  
 Analyst: RC  
 Percent Solids: 84%

Date Collected: 07/13/15 16:05  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.066	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.063	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.041	1
Fluorene	ND		mg/kg	0.20	0.057	1
Phenanthrene	ND		mg/kg	0.12	0.039	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.039	1
Chrysene	ND		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	72		30-120
4-Terphenyl-d14	74		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-10  
 Client ID: DP-075-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 17:22  
 Analyst: RC  
 Percent Solids: 84%

Date Collected: 07/13/15 16:10  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.063	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	57		30-120
4-Terphenyl-d14	66		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-11  
 Client ID: DP-076-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 17:48  
 Analyst: RC  
 Percent Solids: 85%

Date Collected: 07/13/15 16:35  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.19	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.047	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	63		30-120
4-Terphenyl-d14	62		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-12  
 Client ID: DP-076-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 18:13  
 Analyst: RC  
 Percent Solids: 90%

Date Collected: 07/13/15 16:40  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.061	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.058	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.060	1
Acenaphthylene	ND		mg/kg	0.15	0.034	1
Acenaphthene	ND		mg/kg	0.15	0.038	1
Fluorene	ND		mg/kg	0.18	0.052	1
Phenanthrene	ND		mg/kg	0.11	0.036	1
Anthracene	ND		mg/kg	0.11	0.030	1
Fluoranthene	ND		mg/kg	0.11	0.034	1
Pyrene	ND		mg/kg	0.11	0.036	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.036	1
Chrysene	ND		mg/kg	0.11	0.036	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.037	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.035	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.045	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.041	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.036	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	58		30-120
4-Terphenyl-d14	67		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-13  
 Client ID: DP-077-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 18:39  
 Analyst: RC  
 Percent Solids: 87%

Date Collected: 07/13/15 16:55  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.062	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.060	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.061	1
Acenaphthylene	ND		mg/kg	0.15	0.035	1
Acenaphthene	ND		mg/kg	0.15	0.039	1
Fluorene	ND		mg/kg	0.19	0.054	1
Phenanthrene	ND		mg/kg	0.11	0.037	1
Anthracene	ND		mg/kg	0.11	0.031	1
Fluoranthene	ND		mg/kg	0.11	0.034	1
Pyrene	ND		mg/kg	0.11	0.036	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.037	1
Chrysene	ND		mg/kg	0.11	0.037	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.038	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.036	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.046	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.042	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.036	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	75		30-120
4-Terphenyl-d14	67		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-14  
 Client ID: DP-077-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 19:04  
 Analyst: RC  
 Percent Solids: 88%

Date Collected: 07/13/15 17:00  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.062	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.059	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.060	1
Acenaphthylene	ND		mg/kg	0.15	0.035	1
Acenaphthene	ND		mg/kg	0.15	0.038	1
Fluorene	ND		mg/kg	0.18	0.053	1
Phenanthrene	ND		mg/kg	0.11	0.036	1
Anthracene	ND		mg/kg	0.11	0.031	1
Fluoranthene	ND		mg/kg	0.11	0.034	1
Pyrene	ND		mg/kg	0.11	0.036	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.036	1
Chrysene	ND		mg/kg	0.11	0.036	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.037	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.035	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.045	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.041	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.036	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	63		30-120
4-Terphenyl-d14	62		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-15  
 Client ID: DP-078-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 19:30  
 Analyst: RC  
 Percent Solids: 84%

Date Collected: 07/13/15 17:20  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.062	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.036	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	65		30-120
4-Terphenyl-d14	68		18-120



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-16  
 Client ID: DP-078-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 19:55  
 Analyst: RC  
 Percent Solids: 87%

Date Collected: 07/13/15 17:25  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.063	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.060	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.062	1
Acenaphthylene	ND		mg/kg	0.15	0.035	1
Acenaphthene	ND		mg/kg	0.15	0.039	1
Fluorene	ND		mg/kg	0.19	0.054	1
Phenanthrene	ND		mg/kg	0.11	0.037	1
Anthracene	ND		mg/kg	0.11	0.031	1
Fluoranthene	ND		mg/kg	0.11	0.035	1
Pyrene	ND		mg/kg	0.11	0.037	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.037	1
Chrysene	ND		mg/kg	0.11	0.037	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.038	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.036	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.046	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.042	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.037	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.039	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	73		30-120
4-Terphenyl-d14	67		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-17  
 Client ID: EB01-071315  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 13:06  
 Analyst: PS

Date Collected: 07/13/15 16:00  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 07/15/15 22:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		ug/l	2.0	0.33	1
2-Methylnaphthalene	ND		ug/l	2.0	0.36	1
2-Chloronaphthalene	ND		ug/l	2.0	0.46	1
Acenaphthylene	ND		ug/l	2.0	0.37	1
Acenaphthene	ND		ug/l	2.0	0.28	1
Fluorene	ND		ug/l	2.0	0.32	1
Phenanthrene	ND		ug/l	2.0	0.23	1
Anthracene	ND		ug/l	2.0	0.20	1
Fluoranthene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.52	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Chrysene	ND		ug/l	2.0	0.30	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.37	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.30	1
Benzo(a)pyrene	ND		ug/l	2.0	0.66	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.43	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.44	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.57	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	113		23-120
2-Fluorobiphenyl	99		15-120
4-Terphenyl-d14	107		41-149

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/16/15 09:44  
**Analyst:** RC

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 19:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-16 Batch: WG803095-1					
Naphthalene	ND		mg/kg	0.16	0.055
2-Methylnaphthalene	ND		mg/kg	0.20	0.053
2-Chloronaphthalene	ND		mg/kg	0.16	0.054
Acenaphthylene	ND		mg/kg	0.13	0.031
Acenaphthene	ND		mg/kg	0.13	0.034
Fluorene	ND		mg/kg	0.16	0.047
Phenanthrene	ND		mg/kg	0.099	0.032
Anthracene	ND		mg/kg	0.099	0.028
Fluoranthene	ND		mg/kg	0.099	0.030
Pyrene	ND		mg/kg	0.099	0.032
Benzo(a)anthracene	ND		mg/kg	0.099	0.032
Chrysene	ND		mg/kg	0.099	0.032
Benzo(b)fluoranthene	ND		mg/kg	0.099	0.033
Benzo(k)fluoranthene	ND		mg/kg	0.099	0.032
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.13	0.037
Dibenzo(a,h)anthracene	ND		mg/kg	0.099	0.032
Benzo(ghi)perylene	ND		mg/kg	0.13	0.034

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	80		30-120
4-Terphenyl-d14	84		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/18/15 11:25  
**Analyst:** PS

**Extraction Method:** EPA 3510C  
**Extraction Date:** 07/15/15 22:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 17 Batch: WG804279-1					
Naphthalene	ND		ug/l	2.0	0.33
2-Methylnaphthalene	ND		ug/l	2.0	0.36
2-Chloronaphthalene	ND		ug/l	2.0	0.46
Acenaphthylene	ND		ug/l	2.0	0.37
Acenaphthene	ND		ug/l	2.0	0.28
Fluorene	ND		ug/l	2.0	0.32
Phenanthrene	ND		ug/l	2.0	0.23
Anthracene	ND		ug/l	2.0	0.20
Fluoranthene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.52
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Chrysene	ND		ug/l	2.0	0.30
Benzo(b)fluoranthene	ND		ug/l	2.0	0.37
Benzo(k)fluoranthene	ND		ug/l	2.0	0.30
Benzo(a)pyrene	ND		ug/l	2.0	0.66
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	0.43
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.44
Benzo(ghi)perylene	ND		ug/l	2.0	0.57

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	77		15-120
4-Terphenyl-d14	98		41-149

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516217

Report Date: 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-16 Batch: WG803095-2 WG803095-3								
Naphthalene	69		75		40-140	8		50
2-Methylnaphthalene	74		81		40-140	9		50
2-Chloronaphthalene	86		91		40-140	6		50
Acenaphthylene	83		90		40-140	8		50
Acenaphthene	71		78		31-137	9		50
Fluorene	77		84		40-140	9		50
Phenanthrene	72		78		40-140	8		50
Anthracene	73		80		40-140	9		50
Fluoranthene	79		86		40-140	8		50
Pyrene	78		86		35-142	10		50
Benzo(a)anthracene	74		81		40-140	9		50
Chrysene	70		76		40-140	8		50
Benzo(b)fluoranthene	74		80		40-140	8		50
Benzo(k)fluoranthene	76		84		40-140	10		50
Benzo(a)pyrene	76		81		40-140	6		50
Indeno(1,2,3-cd)pyrene	74		80		40-140	8		50
Dibenzo(a,h)anthracene	72		81		40-140	12		50
Benzo(ghi)perylene	75		83		40-140	10		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-16 Batch: WG803095-2 WG803095-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
Nitrobenzene-d5	77		85		23-120
2-Fluorobiphenyl	84		93		30-120
4-Terphenyl-d14	79		87		18-120

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 17 Batch: WG804279-2 WG804279-3								
Naphthalene	79		75		40-140	5		30
2-Methylnaphthalene	82		77		40-140	6		30
2-Chloronaphthalene	86		80		40-140	7		30
Acenaphthylene	95		87		45-123	9		30
Acenaphthene	92		85		37-111	8		30
Fluorene	98		88		40-140	11		30
Phenanthrene	96		89		40-140	8		30
Anthracene	99		92		40-140	7		30
Fluoranthene	103		96		40-140	7		30
Pyrene	101		94		26-127	7		30
Benzo(a)anthracene	106		97		40-140	9		30
Chrysene	101		93		40-140	8		30
Benzo(b)fluoranthene	110		97		40-140	13		30
Benzo(k)fluoranthene	106		98		40-140	8		30
Benzo(a)pyrene	106		98		40-140	8		30
Indeno(1,2,3-cd)Pyrene	109		100		40-140	9		30
Dibenzo(a,h)anthracene	106		97		40-140	9		30
Benzo(ghi)perylene	105		97		40-140	8		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516217

Report Date: 07/21/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 17 Batch: WG804279-2 WG804279-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Nitrobenzene-d5	116		101		23-120
2-Fluorobiphenyl	98		87		15-120
4-Terphenyl-d14	106		96		41-149



# **PETROLEUM HYDROCARBONS**

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-01  
 Client ID: DP-073-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/16/15 22:18  
 Analyst: AR  
 Percent Solids: 83%

Date Collected: 07/13/15 15:00  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Petroleum Hydrocarbon Quantitation - Westborough Lab</b>						
DROD (C9-C44)	ND		mg/kg	38.6	4.31	1
Surrogate	% Recovery	Qualifier	Acceptance Criteria			
o-Terphenyl	86		40-140			

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-01  
 Client ID: DP-073-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 01:41  
 Analyst: BS  
 Percent Solids: 83%

Date Collected: 07/13/15 15:00  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.056	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	92		70-130
4-Bromofluorobenzene	78		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-02  
**Client ID:** DP-073-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/16/15 22:54  
**Analyst:** AR  
**Percent Solids:** 84%

**Date Collected:** 07/13/15 15:05  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Petroleum Hydrocarbon Quantitation - Westborough Lab</b>						
DROD (C9-C44)	ND		mg/kg	39.3	4.38	1
Surrogate	% Recovery	Qualifier	Acceptance Criteria			
o-Terphenyl	89		40-140			

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-02  
 Client ID: DP-073-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 02:22  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/13/15 15:05  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	ND		mg/kg	2.8	0.053	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	88		70-130
4-Bromofluorobenzene	76		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-03  
**Client ID:** DP-073-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/16/15 23:30  
**Analyst:** AR  
**Percent Solids:** 83%

**Date Collected:** 07/13/15 15:10  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	ND		mg/kg	39.3	4.39	1
Surrogate	% Recovery	Qualifier	Acceptance Criteria			
o-Terphenyl	87		40-140			

**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-03  
**Client ID:** DP-073-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/20/15 03:02  
**Analyst:** BS  
**Percent Solids:** 83%

**Date Collected:** 07/13/15 15:10  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		mg/kg	3.0	0.057	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	90		70-130
4-Bromofluorobenzene	76		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-04  
**Client ID:** DP-074-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/17/15 00:06  
**Analyst:** AR  
**Percent Solids:** 84%

**Date Collected:** 07/13/15 15:25  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	ND		mg/kg	39.3	4.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	89		40-140



**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-04  
**Client ID:** DP-074-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/20/15 03:42  
**Analyst:** BS  
**Percent Solids:** 84%

**Date Collected:** 07/13/15 15:25  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		mg/kg	3.0	0.057	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	91		70-130
4-Bromofluorobenzene	77		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-05  
 Client ID: DP-074-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 00:41  
 Analyst: AR  
 Percent Solids: 85%

Date Collected: 07/13/15 15:25  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	ND		mg/kg	39.0	4.35	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	90		40-140

**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-05  
**Client ID:** DP-074-SO-010-02  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/20/15 04:23  
**Analyst:** BS  
**Percent Solids:** 85%

**Date Collected:** 07/13/15 15:25  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		mg/kg	2.9	0.055	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	83		70-130
4-Bromofluorobenzene	72		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-06  
**Client ID:** DP-074-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/17/15 01:17  
**Analyst:** AR  
**Percent Solids:** 84%

**Date Collected:** 07/13/15 15:30  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	ND		mg/kg	39.0	4.36	1
Surrogate	% Recovery	Qualifier	Acceptance Criteria			
o-Terphenyl	79		40-140			

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-06  
 Client ID: DP-074-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 05:03  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/13/15 15:30  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		mg/kg	2.8	0.054	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	86		70-130
4-Bromofluorobenzene	74		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-07  
**Client ID:** DP-074-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/17/15 01:52  
**Analyst:** AR  
**Percent Solids:** 84%

**Date Collected:** 07/13/15 15:35  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	ND		mg/kg	39.2	4.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	79		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-07  
 Client ID: DP-074-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 05:43  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/13/15 15:35  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.8	0.054	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	89		70-130
4-Bromofluorobenzene	79		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-08  
 Client ID: DP-075-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 02:28  
 Analyst: AR  
 Percent Solids: 85%

Date Collected: 07/13/15 16:00  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	ND		mg/kg	38.8	4.33	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	89		40-140



**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-08  
**Client ID:** DP-075-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/20/15 06:24  
**Analyst:** BS  
**Percent Solids:** 85%

**Date Collected:** 07/13/15 16:00  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		mg/kg	2.8	0.054	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	88		70-130
4-Bromofluorobenzene	77		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-09  
 Client ID: DP-075-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 03:03  
 Analyst: AR  
 Percent Solids: 84%

Date Collected: 07/13/15 16:05  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	ND		mg/kg	39.0	4.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	91		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-09  
 Client ID: DP-075-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 11:35  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/13/15 16:05  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		mg/kg	2.8	0.053	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	100		70-130
4-Bromofluorobenzene	107		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-10  
**Client ID:** DP-075-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/17/15 03:39  
**Analyst:** AR  
**Percent Solids:** 84%

**Date Collected:** 07/13/15 16:10  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	ND		mg/kg	39.4	4.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	89		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-10  
 Client ID: DP-075-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 13:35  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/13/15 16:10  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

<b>Gasoline Range Organics - Westborough Lab</b>						
--	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.056	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	106		70-130
4-Bromofluorobenzene	111		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-11  
 Client ID: DP-076-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 04:15  
 Analyst: AR  
 Percent Solids: 85%

Date Collected: 07/13/15 16:35  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	ND		mg/kg	36.8	4.11	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	90		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-11  
 Client ID: DP-076-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 14:15  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/13/15 16:35  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.8	0.054	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	103		70-130
4-Bromofluorobenzene	108		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-12  
 Client ID: DP-076-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 04:50  
 Analyst: AR  
 Percent Solids: 90%

Date Collected: 07/13/15 16:40  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 15:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	ND		mg/kg	35.2	3.92	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	95		40-140



**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-12  
**Client ID:** DP-076-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/20/15 14:55  
**Analyst:** BS  
**Percent Solids:** 90%

**Date Collected:** 07/13/15 16:40  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		mg/kg	2.7	0.052	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	106		70-130
4-Bromofluorobenzene	112		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-13  
 Client ID: DP-077-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 05:26  
 Analyst: AR  
 Percent Solids: 87%

Date Collected: 07/13/15 16:55  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 15:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	ND		mg/kg	37.4	4.18	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	92		40-140

**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-13  
**Client ID:** DP-077-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/20/15 15:35  
**Analyst:** BS  
**Percent Solids:** 87%

**Date Collected:** 07/13/15 16:55  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		mg/kg	2.9	0.055	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	106		70-130
4-Bromofluorobenzene	110		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-14  
**Client ID:** DP-077-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/17/15 06:01  
**Analyst:** AR  
**Percent Solids:** 88%

**Date Collected:** 07/13/15 17:00  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Petroleum Hydrocarbon Quantitation - Westborough Lab</b>						
DROD (C9-C44)	ND		mg/kg	36.5	4.08	1
Surrogate	% Recovery	Qualifier	Acceptance Criteria			
o-Terphenyl	90		40-140			

**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-14  
**Client ID:** DP-077-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/20/15 16:15  
**Analyst:** BS  
**Percent Solids:** 88%

**Date Collected:** 07/13/15 17:00  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		mg/kg	2.8	0.054	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	104		70-130
4-Bromofluorobenzene	113		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-15  
 Client ID: DP-078-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 06:37  
 Analyst: AR  
 Percent Solids: 84%

Date Collected: 07/13/15 17:20  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 15:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	4.54	J	mg/kg	38.9	4.34	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	90		40-140

**Project Name:** BUZZARD POINT**Lab Number:** L1516217**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

**Lab ID:** L1516217-15  
**Client ID:** DP-078-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/20/15 16:55  
**Analyst:** BS  
**Percent Solids:** 84%

**Date Collected:** 07/13/15 17:20  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified  
**Extraction Method:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		mg/kg	2.9	0.056	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	105		70-130
4-Bromofluorobenzene	113		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-16  
 Client ID: DP-078-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 07:12  
 Analyst: AR  
 Percent Solids: 87%

Date Collected: 07/13/15 17:25  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/15/15 15:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	ND		mg/kg	37.9	4.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	88		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-16  
 Client ID: DP-078-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 17:35  
 Analyst: BS  
 Percent Solids: 87%

Date Collected: 07/13/15 17:25  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		mg/kg	2.8	0.055	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	105		70-130
4-Bromofluorobenzene	113		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-17  
 Client ID: EB01-071315  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/17/15 18:54  
 Analyst: SW

Date Collected: 07/13/15 16:00  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 07/15/15 20:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
DROD (C9-C44)	73.6	J	ug/l	500	21.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	76		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-17  
 Client ID: EB01-071315  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 10:56  
 Analyst: BS

Date Collected: 07/13/15 16:00  
 Date Received: 07/14/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Gasoline Range Organics - Westborough Lab</b>						
Gasoline Range Organics	ND		ug/l	50	3.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	104		70-130
4-Bromofluorobenzene	109		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/16/15 20:31  
**Analyst:** AR

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/15/15 15:56

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01-16 Batch: WG803009-1					
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	32.3	3.61

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	75		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/17/15 17:16  
**Analyst:** SW

**Extraction Method:** EPA 3510C  
**Extraction Date:** 07/15/15 20:35

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 17 Batch: WG803110-1					
Total Petroleum Hydrocarbons (C9-C44)	90.0	J	ug/l	500	21.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	74		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/19/15 20:58  
**Analyst:** BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 01-08 Batch: WG804242-3					
Gasoline Range Organics	ND		mg/kg	2.5	0.048

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	89		70-130
4-Bromofluorobenzene	85		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/20/15 10:16  
**Analyst:** BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 09-16 Batch: WG804568-3					
Gasoline Range Organics	ND		mg/kg	2.5	0.048

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	108		70-130
4-Bromofluorobenzene	115		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 10:16  
 Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 17 Batch: WG804571-3					
Gasoline Range Organics	ND		ug/l	50	3.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	108		70-130
4-Bromofluorobenzene	115		70-130



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-16 Batch: WG803009-2								
Total Petroleum Hydrocarbons (C9-C44)	66		-		40-140	-		40

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
o-Terphenyl	71				40-140

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 17 Batch: WG803110-2								
Total Petroleum Hydrocarbons (C9-C44)	80		-		40-140	-		40

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
o-Terphenyl	76				40-140

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01-08 Batch: WG804242-1 WG804242-2								
Gasoline Range Organics	95		97		80-120	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	101		103		70-130
4-Bromofluorobenzene	99		96		70-130

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Gasoline Range Organics - Westborough Lab Associated sample(s): 09-16 Batch: WG804568-1 WG804568-2								
Gasoline Range Organics	96		98		80-120	2		20

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,1,1-Trifluorotoluene	105		106		70-130
4-Bromofluorobenzene	113		115		70-130

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 17 Batch: WG804571-1 WG804571-2								
Gasoline Range Organics	96		98		80-120	2		20

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
1,1,1-Trifluorotoluene	105		106		70-130
4-Bromofluorobenzene	113		115		70-130

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>MS Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>MSD Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>RPD Qual</i>	<i>RPD Limits</i>
Gasoline Range Organics - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG804242-5 QC Sample: L1516001-19 Client ID: MS Sample												
Gasoline Range Organics	ND	23.3	22	95		-	-		80-120	-		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>MS Qualifier</i>	<i>MSD % Recovery</i>	<i>MSD Qualifier</i>	<i>Acceptance Criteria</i>
1,1,1-Trifluorotoluene	93				70-130
4-Bromofluorobenzene	79				70-130

### Matrix Spike Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Gasoline Range Organics - Westborough Lab Associated sample(s): 09-16 QC Batch ID: WG804568-5 QC Sample: L1516217-09 Client ID: DP-075-SO-050-01												
Gasoline Range Organics	ND	22.2	20	91		-	-		80-120	-		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>MS Qualifier</i>	<i>MSD % Recovery</i>	<i>MSD Qualifier</i>	<i>Acceptance Criteria</i>
1,1,1-Trifluorotoluene	105				70-130
4-Bromofluorobenzene	113				70-130

**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01-16 QC Batch ID: WG803009-3 QC Sample: L1516217-01 Client ID: DP-073-SO-010-01						
Total Petroleum Hydrocarbons (C9-C44)	ND	ND	mg/kg	NC		40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	86		91		40-140

Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 17 QC Batch ID: WG803110-3 QC Sample: L1516217-17 Client ID: EB01-071315						
Total Petroleum Hydrocarbons (C9-C44)	73.6J	118J	ug/l	NC		40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	76		91		40-140





**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** BUZZARD POINT

**Project Number:** 40223-002

**Lab Number:** L1516217

**Report Date:** 07/21/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG804242-4 QC Sample: L1516001-19 Client ID: DUP Sample					
Gasoline Range Organics	ND	ND	mg/kg	NC	20

Surrogate	%Recovery Qualifier	%Recovery Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	89	91	70-130
4-Bromofluorobenzene	78	79	70-130



**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** BUZZARD POINT

**Project Number:** 40223-002

**Lab Number:** L1516217

**Report Date:** 07/21/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 09-16 QC Batch ID: WG804568-4 QC Sample: L1516217-09 Client ID: DP-075-SO-050-01					
Gasoline Range Organics	ND	ND	mg/kg	NC	20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	100		105		70-130
4-Bromofluorobenzene	107		113		70-130

# **INORGANICS & MISCELLANEOUS**

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-01  
**Client ID:** DP-073-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 15:00  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.2		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-02  
**Client ID:** DP-073-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 15:05  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.5		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-03  
**Client ID:** DP-073-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 15:10  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-04  
**Client ID:** DP-074-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 15:25  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-05  
**Client ID:** DP-074-SO-010-02  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 15:25  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	07/15/15 22:19	30,2540G	RT





**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-06  
**Client ID:** DP-074-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 15:30  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.9		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-07  
**Client ID:** DP-074-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 15:35  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1516217

Project Number: 40223-002

Report Date: 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516217-08  
 Client ID: DP-075-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 16:00  
 Date Received: 07/14/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-09  
**Client ID:** DP-075-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 16:05  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.6		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-10  
**Client ID:** DP-075-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 16:10  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.7		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-11  
**Client ID:** DP-076-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 16:35  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.2		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-12  
**Client ID:** DP-076-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 16:40  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-13  
**Client ID:** DP-077-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 16:55  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.5		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB





**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-14  
**Client ID:** DP-077-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 17:00  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.9		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-15  
**Client ID:** DP-078-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 17:20  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516217-16  
**Client ID:** DP-078-SO-100-01  
**Sample Location:** Not Specified  
**Matrix:** Soil

**Date Collected:** 07/13/15 17:25  
**Date Received:** 07/14/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	07/15/15 13:11	30,2540G	AB



## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04,06-16 QC Batch ID: WG802913-1 QC Sample: L1516077-01 Client ID: DUP Sample						
Solids, Total	78.6	81.6	%	4		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG803121-1 QC Sample: L1515475-04 Client ID: DUP Sample						
Solids, Total	23.8	23.4	%	2		20

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516217

Report Date: 07/21/15

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

## Cooler Information Custody Seal

## Cooler

A Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516217-01A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-01A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-01B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-02A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-02A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-02B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-03A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-03A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-03B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-04A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-04A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-04B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-05A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14),TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-05A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-06A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-06A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-06B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-07A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-07A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-07B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)

\*Values in parentheses indicate holding time in days



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516217-08A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-08A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-08B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-09A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-09A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-09B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-10A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-10A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-10B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-11A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-11A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-11B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-12A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-12A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-12B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-13A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-13A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-13B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-14A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-14A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-14B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-15A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-15A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-15B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-16A	Vial Large Septa unpreserved (4o	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516217-16A9	Vial MeOH preserved split	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-16B	Glass 250ml/8oz unpreserved	A	N/A	3.0	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516217-17A	Vial HCl preserved	A	N/A	3.0	Y	Absent	PA-8260(14)

\*Values in parentheses indicate holding time in days



**Project Name:** BUZZARD POINT**Project Number:** 40223-002**Lab Number:** L1516217**Report Date:** 07/21/15**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516217-17B	Vial HCl preserved	A	N/A	3.0	Y	Absent	PA-8260(14)
L1516217-17C	Vial HCl preserved	A	N/A	3.0	Y	Absent	PA-TPH-GRO(14)
L1516217-17D	Vial HCl preserved	A	N/A	3.0	Y	Absent	PA-TPH-DROD-C44(7)
L1516217-17E	Plastic 250ml HNO3 preserved	A	<2	3.0	Y	Absent	HOLD-METAL(180)
L1516217-17F	Amber 1000ml unpreserved	A	7	3.0	Y	Absent	PA-8270(7)
L1516217-17G	Amber 1000ml unpreserved	A	7	3.0	Y	Absent	PA-TPH-DROD-C44(7)
L1516217-18A	Vial HCl preserved	A	N/A	3.0	Y	Absent	PA-8260(14)
L1516217-18B	Vial HCl preserved	A	N/A	3.0	Y	Absent	PA-8260(14)

\*Values in parentheses indicate holding time in days

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers





**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

#### Data Qualifiers

- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516217  
**Report Date:** 07/21/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

Last revised December 16, 2014

---

### The following analytes are not included in our NELAP Scope of Accreditation:

#### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

#### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

---

### The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

#### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

#### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

---

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



# CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 7/15/15

ALPHA Job #: L1516217



ESTBORO, MA  
TEL: 508-898-9220  
MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-898-9193 FAX: 508-822-3288

### Project Information

Project Name:

Project Location:

Project #: 40223-002

Project Manager:

ALPHA Quote #:

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!)

Date Due: \_\_\_\_\_ Time: \_\_\_\_\_

### Report Information - Data Deliverables

FAX  EMAIL

ADEX  Add'l Deliverables

### Billing Information

Same as Client info PO #: \_\_\_\_\_

### Regulatory Requirements/Report Limits

State /Fed Program \_\_\_\_\_ Criteria \_\_\_\_\_

### Client Information

Client: Haley + Aldrich

Address: 5333 Mission center Rd

San Diego, CA 92108

Phone: 619-285-7122

City: \_\_\_\_\_

Email: dkennard@haleyaldrich.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

**ANALYSIS**

TPH C6 to C44 (EPA 8015)  
PAHS EPA (82706)  
TAL Metals (6010)  
VOC (8260B)

**SAMPLE HANDLING**

Filtration \_\_\_\_\_

Done

Not needed

Lab to do

**Preservation**

Lab to do

(Please specify below)

Sample Specific Comments

LPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials											TOTAL # BOTTLES					
		Date	Time																		
217-11	DP-076-50-050-01	7/13/15	1635	SO	AF	X	X														2
12	DP-076-50-100-01		1640	SO		X	X														2
13	DP-077-50-050-01		1655	SO		X	X														2
14	DP-077-50-100-01		1700	SO		X	X														2
15	DP-078-50-050-01		1720	SO		X	X														2
16	DP-078-50-100-01		1725	SO		X	X														2
17	EB01-071315		1600	W		X	X	X	X												7
18	TB01-071315		1706	W		X			X												2

*Handwritten:* 7/16/15

Container Type	
Preservative	

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	7/14/15	<i>[Signature]</i>	7/14/15 3:20
<i>[Signature]</i>	7/14/15 1830	<i>[Signature]</i>	7/14/15 1830

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



# CHAIN OF CUSTODY

PAGE 2 OF 2

WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

Date Rec'd in Lab: 7/15/15

ALPHA Job #: L1516217

## Client Information

Client: Haley + Aldrich  
Address: 5333 Mission center Rd  
San Diego, CA 92108  
Phone: 619-285-7122  
Fax:

## Project Information

Project Name:  
Project Location:  
Project #: 40223-002  
Project Manager:  
ALPHA Quote #:

## Report Information - Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

## Billing Information

Same as Client info PO #:

## Regulatory Requirements/Report Limits

State /Fed Program Criteria

## Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!)

Date Due: Time:

Email: dkennard@haleyaldrich.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS  
TPH C6 to C14 (EPA 8015)  
PAHs EPA (82706)  
TAL Metals (6010)  
VOC (8260B)

**SAMPLE HANDLING**

Filtration \_\_\_\_\_  
 Done  
 Not needed  
 Lab to do  
Preservation  
 Lab to do  
(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Analysis										Sample Specific Comments	TOTAL # BOTTLES				
		Date	Time			1	2	3	4	5	6	7	8	9	10						
16217-11	DP-076-50-050-01	7/13/15	1635	SO	AF	X	X														2
12	DP-076-50-100-01		1640	SO		X	X														2
13	DP-077-50-050-01		1655	SO		X	X														2
14	DP-077-50-100-01		1700	SO		X	X														2
15	DP-078-50-050-01		1720	SO		X	X														2
16	DP-078-50-100-01		1725	SO		X	X														2
17	EB01-71315		1600	W		X	X	X	X												7
18	TB01-71315		1706	W					X												2

Container Type

Preservative

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time

dkennard

7/14/15

[Signature]

7/14/15 3:20

[Signature]

7/14/15 18:30

[Signature]

7/14/15 18:30

[Signature]

7/15/15 01:00

[Signature]

7/15/15 01:00



## ANALYTICAL REPORT

Lab Number:	L1516351
Client:	Haley & Aldrich, Inc. 5333 Mission Center Rd San Diego, CA 92108
ATTN:	Dana Kennard
Phone:	(619) 285-7108
Project Name:	BUZZARD POINT
Project Number:	40223-002
Report Date:	07/21/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1516351-01	TB01-071515	WATER	Not Specified	07/15/15 08:00	07/15/15
L1516351-02	DP-085-SO-010-01	SOIL	Not Specified	07/15/15 09:25	07/15/15
L1516351-03	DP-085-SO-050-01	SOIL	Not Specified	07/15/15 09:30	07/15/15
L1516351-04	DP-086-SO-010-01	SOIL	Not Specified	07/15/15 09:45	07/15/15
L1516351-05	DP-086-SO-050-01	SOIL	Not Specified	07/15/15 09:50	07/15/15
L1516351-06	DP-086-SO-010-02	SOIL	Not Specified	07/15/15 09:45	07/15/15
L1516351-07	DP-087-SO-010-01	SOIL	Not Specified	07/15/15 10:15	07/15/15
L1516351-08	DP-087-SO-050-01	SOIL	Not Specified	07/15/15 10:20	07/15/15
L1516351-09	DP-088-SO-010-01	SOIL	Not Specified	07/15/15 10:30	07/15/15
L1516351-10	DP-088-SO-050-01	SOIL	Not Specified	07/15/15 10:35	07/15/15
L1516351-11	DP-089-SO-010-01	SOIL	Not Specified	07/15/15 10:40	07/15/15
L1516351-12	DP-089-SO-050-01	SOIL	Not Specified	07/15/15 10:45	07/15/15
L1516351-13	DP-090-SO-050-01	SOIL	Not Specified	07/15/15 11:45	07/15/15
L1516351-14	DP-090-SO-100-01	SOIL	Not Specified	07/15/15 11:50	07/15/15
L1516351-15	DP-091-SO-050-01	SOIL	Not Specified	07/15/15 12:05	07/15/15
L1516351-16	DP-091-SO-100-01	SOIL	Not Specified	07/15/15 12:10	07/15/15
L1516351-17	DP-092-SO-010-01	SOIL	Not Specified	07/15/15 12:35	07/15/15
L1516351-18	DP-092-SO-050-01	SOIL	Not Specified	07/15/15 12:40	07/15/15
L1516351-19	DP-092-SO-100-01	SOIL	Not Specified	07/15/15 12:45	07/15/15
L1516351-20	DP-093-SO-050-01	SOIL	Not Specified	07/15/15 13:10	07/15/15
L1516351-21	DP-093-SO-100-01	SOIL	Not Specified	07/15/15 13:15	07/15/15
L1516351-22	DP-093-SO-100-02	SOIL	Not Specified	07/15/15 13:15	07/15/15
L1516351-23	DP-094-SO-050-01	SOIL	Not Specified	07/15/15 13:30	07/15/15
L1516351-24	DP-094-SO-100-01	SOIL	Not Specified	07/15/15 13:35	07/15/15



<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1516351-25	EB01-071515	WATER	Not Specified	07/15/15 14:00	07/15/15

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

---

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.


#### Petroleum Hydrocarbon Quantitation

L1516351-17 and -19: The surrogate recoveries are below the acceptance criteria for o-terphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

WG803636: An LCSD was performed in lieu of a Laboratory Duplicate due to insufficient sample volume available for analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 07/21/15

# ORGANICS

# VOLATILES

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-01  
 Client ID: TB01-071515  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 07/16/15 12:05  
 Analyst: PD

Date Collected: 07/15/15 08:00  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Chloromethane	ND		ug/l	2.5	0.18	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Bromomethane	ND		ug/l	1.0	0.26	1
Chloroethane	ND		ug/l	1.0	0.13	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1
Methylene chloride	ND		ug/l	2.5	0.29	1
Acetone	ND		ug/l	5.0	1.5	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Methyl tert butyl ether	ND		ug/l	1.0	0.16	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene, Total	ND		ug/l	0.50	0.16	1
Cyclohexane	ND		ug/l	10	0.27	1
Bromochloromethane	ND		ug/l	2.5	0.14	1
Chloroform	ND		ug/l	0.75	0.16	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
2-Butanone	ND		ug/l	5.0	1.9	1
Benzene	ND		ug/l	0.50	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
Trichloroethene	0.28	J	ug/l	0.50	0.18	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
1,4-Dioxane	ND		ug/l	250	41.	1

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516351-01  
**Client ID:** TB01-071515  
**Sample Location:** Not Specified

**Date Collected:** 07/15/15 08:00  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Toluene	ND		ug/l	0.75	0.16	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Ethylbenzene	ND		ug/l	0.50	0.17	1
p/m-Xylene	ND		ug/l	1.0	0.33	1
o-Xylene	ND		ug/l	1.0	0.33	1
Xylenes, Total	ND		ug/l	1.0	0.33	1
Styrene	ND		ug/l	1.0	0.36	1
Bromoform	ND		ug/l	2.0	0.25	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.33	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	104		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/16/15 11:29  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG803369-3					
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Chloromethane	ND		ug/l	2.5	0.18
Vinyl chloride	ND		ug/l	1.0	0.07
Bromomethane	ND		ug/l	1.0	0.26
Chloroethane	ND		ug/l	1.0	0.13
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,1-Dichloroethene	ND		ug/l	0.50	0.14
Carbon disulfide	ND		ug/l	5.0	0.30
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15
Methylene chloride	ND		ug/l	2.5	0.29
Acetone	ND		ug/l	5.0	1.5
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Methyl Acetate	ND		ug/l	2.0	0.23
Methyl tert butyl ether	ND		ug/l	1.0	0.16
1,1-Dichloroethane	ND		ug/l	0.75	0.21
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene (total)	ND		ug/l	0.50	0.16
Cyclohexane	ND		ug/l	10	0.27
Bromochloromethane	ND		ug/l	2.5	0.14
Chloroform	ND		ug/l	0.75	0.16
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
2-Butanone	ND		ug/l	5.0	1.9
Benzene	ND		ug/l	0.50	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
Methyl cyclohexane	ND		ug/l	10	0.40
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Bromodichloromethane	ND		ug/l	0.50	0.19



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/16/15 11:29  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG803369-3					
1,4-Dioxane	ND		ug/l	250	41.
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Toluene	ND		ug/l	0.75	0.16
Tetrachloroethene	ND		ug/l	0.50	0.18
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,2-Dibromoethane	ND		ug/l	2.0	0.19
2-Hexanone	ND		ug/l	5.0	0.52
Chlorobenzene	ND		ug/l	0.50	0.18
Ethylbenzene	ND		ug/l	0.50	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.33
Xylene (Total)	ND		ug/l	1.0	0.33
Styrene	ND		ug/l	1.0	0.36
Bromoform	ND		ug/l	2.0	0.25
Isopropylbenzene	ND		ug/l	0.50	0.19
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.17
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.19
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.33
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Naphthalene	ND		ug/l	2.5	0.22
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 07/16/15 11:29  
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG803369-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	104		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG803369-1 WG803369-2								
Dichlorodifluoromethane	163	Q	150	Q	36-147	8		20
Chloromethane	79		71		64-130	11		20
Vinyl chloride	88		80		55-140	10		20
Bromomethane	66		62		39-139	6		20
Chloroethane	114		106		55-138	7		20
Trichlorofluoromethane	98		96		62-150	2		20
1,1-Dichloroethene	105		103		61-145	2		20
Carbon disulfide	98		91		51-130	7		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	111		108		70-130	3		20
Methylene chloride	105		98		70-130	7		20
Acetone	100		100		58-148	0		20
trans-1,2-Dichloroethene	109		105		70-130	4		20
Methyl Acetate	102		99		70-130	3		20
Methyl tert butyl ether	107		103		63-130	4		20
1,1-Dichloroethane	102		98		70-130	4		20
cis-1,2-Dichloroethene	108		100		70-130	8		20
Cyclohexane	100		97		70-130	3		20
Bromochloromethane	117		111		70-130	5		20
Chloroform	100		96		70-130	4		20
Carbon tetrachloride	111		106		63-132	5		20
1,1,1-Trichloroethane	102		97		67-130	5		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG803369-1 WG803369-2								
2-Butanone	113		112		63-138	1		20
Benzene	112		106		70-130	6		20
1,2-Dichloroethane	98		93		70-130	5		20
Methyl cyclohexane	105		99		70-130	6		20
Trichloroethene	102		97		70-130	5		20
1,2-Dichloropropane	108		101		70-130	7		20
Bromodichloromethane	100		94		67-130	6		20
cis-1,3-Dichloropropene	105		98		70-130	7		20
Toluene	102		98		70-130	4		20
Tetrachloroethene	117		113		70-130	3		20
4-Methyl-2-pentanone	94		94		59-130	0		20
trans-1,3-Dichloropropene	105		102		70-130	3		20
1,1,2-Trichloroethane	106		104		70-130	2		20
Dibromochloromethane	109		104		63-130	5		20
1,2-Dibromoethane	104		102		70-130	2		20
2-Hexanone	68		72		57-130	6		20
Chlorobenzene	105		99		75-130	6		20
Ethylbenzene	101		96		70-130	5		20
p/m-Xylene	106		100		70-130	6		20
o-Xylene	105		98		70-130	7		20
Styrene	111		102		70-130	8		20

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG803369-1 WG803369-2								
Bromoform	108		99		54-136	9		20
Isopropylbenzene	91		86		70-130	6		20
1,1,2,2-Tetrachloroethane	95		92		67-130	3		20
1,3,5-Trimethylbenzene	94		88		64-130	7		20
1,2,4-Trimethylbenzene	94		87		70-130	8		20
1,3-Dichlorobenzene	98		91		70-130	7		20
1,4-Dichlorobenzene	97		91		70-130	6		20
1,2-Dichlorobenzene	98		92		70-130	6		20
1,2-Dibromo-3-chloropropane	79		77		41-144	3		20
1,2,4-Trichlorobenzene	89		84		70-130	6		20
Naphthalene	83		81		70-130	2		20
1,2,3-Trichlorobenzene	86		84		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		93		70-130
Toluene-d8	98		101		70-130
4-Bromofluorobenzene	88		89		70-130
Dibromofluoromethane	101		101		70-130

# SEMIVOLATILES

**Project Name:** BUZZARD POINT**Lab Number:** L1516351**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

Lab ID: L1516351-17 D2

Date Collected: 07/15/15 12:35

Client ID: DP-092-SO-010-01

Date Received: 07/15/15

Sample Location: Not Specified

Field Prep: Not Specified

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 07/17/15 10:39

Analytical Date: 07/21/15 15:41

Analyst: JB

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Methylnaphthalene	31.		mg/kg	2.4	0.63	10

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-17 D  
 Client ID: DP-092-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/21/15 14:41  
 Analyst: JB  
 Percent Solids: 84%

Date Collected: 07/15/15 12:35  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	10.		mg/kg	0.99	0.33	5
2-Methylnaphthalene	45.	E	mg/kg	1.2	0.32	5
2-Chloronaphthalene	ND		mg/kg	0.99	0.32	5
Acenaphthylene	0.69	J	mg/kg	0.79	0.18	5
Acenaphthene	ND		mg/kg	0.79	0.20	5
Fluorene	4.0		mg/kg	0.99	0.28	5
Phenanthrene	7.0		mg/kg	0.59	0.19	5
Anthracene	0.31	J	mg/kg	0.59	0.16	5
Fluoranthene	ND		mg/kg	0.59	0.18	5
Pyrene	0.29	J	mg/kg	0.59	0.19	5
Benzo(a)anthracene	ND		mg/kg	0.59	0.19	5
Chrysene	ND		mg/kg	0.59	0.19	5
Benzo(b)fluoranthene	ND		mg/kg	0.59	0.20	5
Benzo(k)fluoranthene	ND		mg/kg	0.59	0.19	5
Benzo(a)pyrene	ND		mg/kg	0.79	0.24	5
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.79	0.22	5
Dibenzo(a,h)anthracene	ND		mg/kg	0.59	0.19	5
Benzo(ghi)perylene	ND		mg/kg	0.79	0.21	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	121	Q	23-120
2-Fluorobiphenyl	103		30-120
4-Terphenyl-d14	82		18-120



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-18  
 Client ID: DP-092-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/19/15 20:49  
 Analyst: JB  
 Percent Solids: 83%

Date Collected: 07/15/15 12:40  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	1.0		mg/kg	0.20	0.066	1
2-Methylnaphthalene	3.8		mg/kg	0.24	0.063	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.041	1
Fluorene	0.43		mg/kg	0.20	0.056	1
Phenanthrene	0.87		mg/kg	0.12	0.039	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.039	1
Chrysene	ND		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	76		30-120
4-Terphenyl-d14	80		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-19 D  
 Client ID: DP-092-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/21/15 02:53  
 Analyst: JB  
 Percent Solids: 85%

Date Collected: 07/15/15 12:45  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	6.6		mg/kg	0.96	0.32	5
2-Methylnaphthalene	25.		mg/kg	1.2	0.31	5
2-Chloronaphthalene	ND		mg/kg	0.96	0.31	5
Acenaphthylene	ND		mg/kg	0.77	0.18	5
Acenaphthene	1.1		mg/kg	0.77	0.20	5
Fluorene	3.2		mg/kg	0.96	0.28	5
Phenanthrene	5.2		mg/kg	0.58	0.19	5
Anthracene	ND		mg/kg	0.58	0.16	5
Fluoranthene	ND		mg/kg	0.58	0.18	5
Pyrene	0.30	J	mg/kg	0.58	0.19	5
Benzo(a)anthracene	ND		mg/kg	0.58	0.19	5
Chrysene	ND		mg/kg	0.58	0.19	5
Benzo(b)fluoranthene	ND		mg/kg	0.58	0.19	5
Benzo(k)fluoranthene	ND		mg/kg	0.58	0.18	5
Benzo(a)pyrene	ND		mg/kg	0.77	0.23	5
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.77	0.21	5
Dibenzo(a,h)anthracene	ND		mg/kg	0.58	0.18	5
Benzo(ghi)perylene	ND		mg/kg	0.77	0.20	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	71		30-120
4-Terphenyl-d14	85		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-20  
 Client ID: DP-093-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/19/15 12:38  
 Analyst: JB  
 Percent Solids: 89%

Date Collected: 07/15/15 13:10  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.061	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.058	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.060	1
Acenaphthylene	ND		mg/kg	0.15	0.034	1
Acenaphthene	ND		mg/kg	0.15	0.038	1
Fluorene	ND		mg/kg	0.18	0.052	1
Phenanthrene	ND		mg/kg	0.11	0.036	1
Anthracene	ND		mg/kg	0.11	0.030	1
Fluoranthene	ND		mg/kg	0.11	0.034	1
Pyrene	ND		mg/kg	0.11	0.036	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.036	1
Chrysene	ND		mg/kg	0.11	0.036	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.037	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.035	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.045	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.041	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.035	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	93		30-120
4-Terphenyl-d14	89		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-21  
 Client ID: DP-093-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/19/15 16:22  
 Analyst: JB  
 Percent Solids: 84%

Date Collected: 07/15/15 13:15  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.19	0.064	1
2-Methylnaphthalene	ND		mg/kg	0.23	0.061	1
2-Chloronaphthalene	ND		mg/kg	0.19	0.063	1
Acenaphthylene	ND		mg/kg	0.15	0.036	1
Acenaphthene	ND		mg/kg	0.15	0.040	1
Fluorene	ND		mg/kg	0.19	0.055	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.032	1
Fluoranthene	ND		mg/kg	0.12	0.035	1
Pyrene	ND		mg/kg	0.12	0.037	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.038	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.039	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.037	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.047	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.043	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.037	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.040	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	83		30-120
4-Terphenyl-d14	71		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516351-22  
**Client ID:** DP-093-SO-100-02  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 07/19/15 16:50  
**Analyst:** JB  
**Percent Solids:** 91%

**Date Collected:** 07/15/15 13:15  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/17/15 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.060	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.058	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.059	1
Acenaphthylene	ND		mg/kg	0.14	0.034	1
Acenaphthene	ND		mg/kg	0.14	0.037	1
Fluorene	ND		mg/kg	0.18	0.052	1
Phenanthrene	ND		mg/kg	0.11	0.035	1
Anthracene	ND		mg/kg	0.11	0.030	1
Fluoranthene	ND		mg/kg	0.11	0.033	1
Pyrene	ND		mg/kg	0.11	0.035	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.035	1
Chrysene	ND		mg/kg	0.11	0.036	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.036	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.034	1
Benzo(a)pyrene	ND		mg/kg	0.14	0.044	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.14	0.040	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.035	1
Benzo(ghi)perylene	ND		mg/kg	0.14	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	85		30-120
4-Terphenyl-d14	78		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-23  
 Client ID: DP-094-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/19/15 17:18  
 Analyst: JB  
 Percent Solids: 82%

Date Collected: 07/15/15 13:30  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.20	0.065	1
2-Methylnaphthalene	ND		mg/kg	0.24	0.063	1
2-Chloronaphthalene	ND		mg/kg	0.20	0.064	1
Acenaphthylene	ND		mg/kg	0.16	0.037	1
Acenaphthene	ND		mg/kg	0.16	0.040	1
Fluorene	ND		mg/kg	0.20	0.056	1
Phenanthrene	ND		mg/kg	0.12	0.038	1
Anthracene	ND		mg/kg	0.12	0.033	1
Fluoranthene	ND		mg/kg	0.12	0.036	1
Pyrene	ND		mg/kg	0.12	0.038	1
Benzo(a)anthracene	ND		mg/kg	0.12	0.038	1
Chrysene	ND		mg/kg	0.12	0.039	1
Benzo(b)fluoranthene	ND		mg/kg	0.12	0.040	1
Benzo(k)fluoranthene	ND		mg/kg	0.12	0.038	1
Benzo(a)pyrene	ND		mg/kg	0.16	0.048	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.16	0.044	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.12	0.038	1
Benzo(ghi)perylene	ND		mg/kg	0.16	0.041	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	92		30-120
4-Terphenyl-d14	80		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-24  
 Client ID: DP-094-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/19/15 17:47  
 Analyst: JB  
 Percent Solids: 90%

Date Collected: 07/15/15 13:35  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.060	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.058	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.059	1
Acenaphthylene	ND		mg/kg	0.14	0.034	1
Acenaphthene	ND		mg/kg	0.14	0.038	1
Fluorene	ND		mg/kg	0.18	0.052	1
Phenanthrene	ND		mg/kg	0.11	0.036	1
Anthracene	ND		mg/kg	0.11	0.030	1
Fluoranthene	ND		mg/kg	0.11	0.033	1
Pyrene	ND		mg/kg	0.11	0.035	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.036	1
Chrysene	ND		mg/kg	0.11	0.036	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.037	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.035	1
Benzo(a)pyrene	ND		mg/kg	0.14	0.044	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.14	0.040	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.035	1
Benzo(ghi)perylene	ND		mg/kg	0.14	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	92		30-120
4-Terphenyl-d14	86		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-25  
 Client ID: EB01-071515  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 07/18/15 18:22  
 Analyst: AS

Date Collected: 07/15/15 14:00  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 07/16/15 19:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		ug/l	2.0	0.33	1
2-Methylnaphthalene	ND		ug/l	2.0	0.36	1
2-Chloronaphthalene	ND		ug/l	2.0	0.46	1
Acenaphthylene	ND		ug/l	2.0	0.37	1
Acenaphthene	ND		ug/l	2.0	0.28	1
Fluorene	ND		ug/l	2.0	0.32	1
Phenanthrene	ND		ug/l	2.0	0.23	1
Anthracene	ND		ug/l	2.0	0.20	1
Fluoranthene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.52	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Chrysene	ND		ug/l	2.0	0.30	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.37	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.30	1
Benzo(a)pyrene	ND		ug/l	2.0	0.66	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.43	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.44	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.57	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	99		41-149



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/18/15 09:09  
**Analyst:** JB

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/17/15 10:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 17-24 Batch: WG803714-1					
Naphthalene	ND		mg/kg	0.16	0.055
2-Methylnaphthalene	ND		mg/kg	0.20	0.052
2-Chloronaphthalene	ND		mg/kg	0.16	0.054
Acenaphthylene	ND		mg/kg	0.13	0.031
Acenaphthene	ND		mg/kg	0.13	0.034
Fluorene	ND		mg/kg	0.16	0.047
Phenanthrene	ND		mg/kg	0.099	0.032
Anthracene	ND		mg/kg	0.099	0.027
Fluoranthene	ND		mg/kg	0.099	0.030
Pyrene	ND		mg/kg	0.099	0.032
Benzo(a)anthracene	ND		mg/kg	0.099	0.032
Chrysene	ND		mg/kg	0.099	0.032
Benzo(b)fluoranthene	ND		mg/kg	0.099	0.033
Benzo(k)fluoranthene	ND		mg/kg	0.099	0.031
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.13	0.036
Dibenzo(a,h)anthracene	ND		mg/kg	0.099	0.032
Benzo(ghi)perylene	ND		mg/kg	0.13	0.034

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	107		30-120
4-Terphenyl-d14	123	Q	18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/18/15 15:19  
**Analyst:** AS

**Extraction Method:** EPA 3510C  
**Extraction Date:** 07/16/15 19:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 25 Batch: WG804206-1					
Benzaldehyde	ND		ug/l	5.0	0.99
Phenol	ND		ug/l	5.0	0.27
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41
2-Chlorophenol	ND		ug/l	2.0	0.58
2-Methylphenol	ND		ug/l	5.0	0.70
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60
Acetophenone	ND		ug/l	5.0	0.43
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72
Hexachloroethane	ND		ug/l	2.0	0.30
Nitrobenzene	ND		ug/l	2.0	0.40
Isophorone	ND		ug/l	5.0	0.79
2-Nitrophenol	ND		ug/l	10	1.0
2,4-Dimethylphenol	ND		ug/l	5.0	0.58
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60
2,4-Dichlorophenol	ND		ug/l	5.0	0.56
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21
Naphthalene	ND		ug/l	2.0	0.33
4-Chloroaniline	ND		ug/l	5.0	0.84
Hexachlorobutadiene	ND		ug/l	2.0	0.42
Caprolactam	ND		ug/l	10	0.39
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54
2-Methylnaphthalene	ND		ug/l	2.0	0.36
Hexachlorocyclopentadiene	ND		ug/l	20	0.58
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75
Biphenyl	ND		ug/l	2.0	0.24
2-Chloronaphthalene	ND		ug/l	2.0	0.46

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/18/15 15:19  
**Analyst:** AS

**Extraction Method:** EPA 3510C  
**Extraction Date:** 07/16/15 19:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 25 Batch: WG804206-1					
2-Nitroaniline	ND		ug/l	5.0	0.96
Dimethyl phthalate	ND		ug/l	5.0	0.33
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89
Acenaphthylene	ND		ug/l	2.0	0.37
3-Nitroaniline	ND		ug/l	5.0	0.67
Acenaphthene	ND		ug/l	2.0	0.28
2,4-Dinitrophenol	ND		ug/l	20	0.56
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0
Dibenzofuran	ND		ug/l	2.0	0.22
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.59
Diethyl phthalate	ND		ug/l	5.0	0.39
Fluorene	ND		ug/l	2.0	0.32
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36
4-Nitroaniline	ND		ug/l	5.0	0.83
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43
Hexachlorobenzene	ND		ug/l	2.0	0.40
Pentachlorophenol	ND		ug/l	10	3.2
Atrazine	ND		ug/l	3.0	0.79
Phenanthrene	ND		ug/l	2.0	0.23
Anthracene	ND		ug/l	2.0	0.20
Carbazole	ND		ug/l	2.0	0.37
Di-n-butylphthalate	ND		ug/l	5.0	0.77
Fluoranthene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.52
Butyl benzyl phthalate	ND		ug/l	5.0	1.1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/18/15 15:19  
**Analyst:** AS

**Extraction Method:** EPA 3510C  
**Extraction Date:** 07/16/15 19:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 25 Batch: WG804206-1					
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Chrysene	ND		ug/l	2.0	0.30
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93
Di-n-octylphthalate	ND		ug/l	5.0	1.2
Benzo(b)fluoranthene	ND		ug/l	2.0	0.37
Benzo(k)fluoranthene	ND		ug/l	2.0	0.30
Benzo(a)pyrene	ND		ug/l	2.0	0.66
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	0.43
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.44
Benzo(ghi)perylene	ND		ug/l	2.0	0.57

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	76		10-120
4-Terphenyl-d14	90		41-149

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 17-24 Batch: WG803714-2 WG803714-3								
Naphthalene	81		74		40-140	9		50
2-Methylnaphthalene	90		82		40-140	9		50
2-Chloronaphthalene	101		90		40-140	12		50
Acenaphthylene	104		91		40-140	13		50
Acenaphthene	92		81		31-137	13		50
Fluorene	98		86		40-140	13		50
Phenanthrene	95		84		40-140	12		50
Anthracene	105		91		40-140	14		50
Fluoranthene	107		91		40-140	16		50
Pyrene	105		91		35-142	14		50
Benzo(a)anthracene	99		86		40-140	14		50
Chrysene	97		81		40-140	18		50
Benzo(b)fluoranthene	94		83		40-140	12		50
Benzo(k)fluoranthene	94		81		40-140	15		50
Benzo(a)pyrene	96		84		40-140	13		50
Indeno(1,2,3-cd)Pyrene	98		88		40-140	11		50
Dibenzo(a,h)anthracene	99		88		40-140	12		50
Benzo(ghi)perylene	95		86		40-140	10		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 17-24 Batch: WG803714-2 WG803714-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Nitrobenzene-d5	74		68		23-120
2-Fluorobiphenyl	106		90		30-120
4-Terphenyl-d14	117		98		18-120

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 25 Batch: WG804206-2 WG804206-3								
Benzaldehyde	113		88		40-140	25		30
Phenol	40		34		12-110	16		30
Bis(2-chloroethyl)ether	79		66		40-140	18		30
2-Chlorophenol	77		66		27-123	15		30
2-Methylphenol	72		60		30-130	18		30
Bis(2-chloroisopropyl)ether	77		64		40-140	18		30
Acetophenone	95		80		39-129	17		30
n-Nitrosodi-n-propylamine	92		78		29-132	16		30
3-Methylphenol/4-Methylphenol	70		59		30-130	17		30
Hexachloroethane	61		51		40-140	18		30
Nitrobenzene	90		74		40-140	20		30
Isophorone	93		79		40-140	16		30
2-Nitrophenol	84		73		30-130	14		30
2,4-Dimethylphenol	77		65		30-130	17		30
Bis(2-chloroethoxy)methane	85		71		40-140	18		30
2,4-Dichlorophenol	90		75		30-130	18		30
1,2,4-Trichlorobenzene	69		55		30-130	23		30
Naphthalene	74		60		40-140	21		30
4-Chloroaniline	81		65		40-140	22		30
Hexachlorobutadiene	66		54		40-140	20		30
Caprolactam	34		29		10-130	16		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 25 Batch: WG804206-2 WG804206-3								
p-Chloro-m-cresol	90		75		23-97	18		30
2-Methylnaphthalene	79		66		40-140	18		30
Hexachlorocyclopentadiene	56		45		40-140	22		30
1,2,4,5-Tetrachlorobenzene	77		62		2-134	22		30
2,4,6-Trichlorophenol	93		76		30-130	20		30
2,4,5-Trichlorophenol	95		76		30-130	22		30
Biphenyl	82		66		40-140	22		30
2-Chloronaphthalene	81		67		40-140	19		30
2-Nitroaniline	92		78		52-143	16		30
Dimethyl phthalate	91		74		40-140	21		30
2,6-Dinitrotoluene	93		78		40-140	18		30
Acenaphthylene	90		75		45-123	18		30
3-Nitroaniline	76		60		25-145	24		30
Acenaphthene	79		65		37-111	19		30
2,4-Dinitrophenol	79		70		20-130	12		30
4-Nitrophenol	52		42		10-80	21		30
2,4-Dinitrotoluene	97	Q	81		24-96	18		30
Dibenzofuran	83		68		40-140	20		30
2,3,4,6-Tetrachlorophenol	95		78		54-145	20		30
Diethyl phthalate	95		76		40-140	22		30
Fluorene	88		71		40-140	21		30



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 25 Batch: WG804206-2 WG804206-3								
4-Chlorophenyl phenyl ether	85		70		40-140	19		30
4-Nitroaniline	94		77		51-143	20		30
4,6-Dinitro-o-cresol	88		77		20-164	13		30
NDPA/DPA	89		72		40-140	21		30
4-Bromophenyl phenyl ether	93		74		40-140	23		30
Hexachlorobenzene	87		70		40-140	22		30
Pentachlorophenol	79		66		9-103	18		30
Atrazine	114		91		40-140	22		30
Phenanthrene	84		68		40-140	21		30
Anthracene	92		76		40-140	19		30
Carbazole	92		76		55-144	19		30
Di-n-butylphthalate	104		88		40-140	17		30
Fluoranthene	96		82		40-140	16		30
Pyrene	92		79		26-127	15		30
Butyl benzyl phthalate	90		78		40-140	14		30
3,3'-Dichlorobenzidine	78		64		40-140	20		30
Benzo(a)anthracene	94		77		40-140	20		30
Chrysene	85		72		40-140	17		30
Bis(2-Ethylhexyl)phthalate	90		76		40-140	17		30
Di-n-octylphthalate	86		74		40-140	15		30
Benzo(b)fluoranthene	98		76		40-140	25		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 25 Batch: WG804206-2 WG804206-3								
Benzo(k)fluoranthene	88		76		40-140	15		30
Benzo(a)pyrene	85		80		40-140	6		30
Indeno(1,2,3-cd)Pyrene	90		75		40-140	18		30
Dibenzo(a,h)anthracene	90		76		40-140	17		30
Benzo(ghi)perylene	103		86		40-140	18		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	51		43		21-120
Phenol-d6	38		32		10-120
Nitrobenzene-d5	94		79		23-120
2-Fluorobiphenyl	88		74		15-120
2,4,6-Tribromophenol	98		80		10-120
4-Terphenyl-d14	96		82		41-149

# PETROLEUM HYDROCARBONS

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-13  
 Client ID: DP-090-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 15:22  
 Analyst: AR  
 Percent Solids: 85%

Date Collected: 07/15/15 11:45  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 14:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	5.46	J	mg/kg	38.1	4.25	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	83		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-13  
 Client ID: DP-090-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 18:14  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/15/15 11:45  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.056	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	99		70-130
4-Bromofluorobenzene	104		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-14  
 Client ID: DP-090-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 15:58  
 Analyst: AR  
 Percent Solids: 89%

Date Collected: 07/15/15 11:50  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 14:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	7.55	J	mg/kg	36.6	4.08	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	74		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-14  
 Client ID: DP-090-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 18:54  
 Analyst: BS  
 Percent Solids: 89%

Date Collected: 07/15/15 11:50  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	103		70-130
4-Bromofluorobenzene	105		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-15  
 Client ID: DP-091-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 16:35  
 Analyst: AR  
 Percent Solids: 85%

Date Collected: 07/15/15 12:05  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 14:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	8.03	J	mg/kg	39.2	4.38	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	83		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-15  
 Client ID: DP-091-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 19:33  
 Analyst: BS  
 Percent Solids: 85%

Date Collected: 07/15/15 12:05  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.9	0.056	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	104		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-16  
 Client ID: DP-091-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 17:12  
 Analyst: AR  
 Percent Solids: 87%

Date Collected: 07/15/15 12:10  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 14:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	7.02	J	mg/kg	37.3	4.16	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	85		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-16  
 Client ID: DP-091-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 23:30  
 Analyst: BS  
 Percent Solids: 87%

Date Collected: 07/15/15 12:10  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.053	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	94		70-130
4-Bromofluorobenzene	99		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-17 D  
 Client ID: DP-092-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 23:51  
 Analyst: AR  
 Percent Solids: 84%

Date Collected: 07/15/15 12:35  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 14:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	6370		mg/kg	1880	210.	50
---------------	------	--	-------	------	------	----

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	0	Q	40-140

**Project Name:** BUZZARD POINT**Lab Number:** L1516351**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

Lab ID: L1516351-17 D

Date Collected: 07/15/15 12:35

Client ID: DP-092-SO-010-01

Date Received: 07/15/15

Sample Location: Not Specified

Field Prep: Not Specified

Matrix: Soil

Extraction Method:

Analytical Method: 1,8015C(M)

Analytical Date: 07/21/15 06:04

Analyst: BS

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	240		mg/kg	28	0.55	10
-------------------------	-----	--	-------	----	------	----

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	96		70-130

**Project Name:** BUZZARD POINT**Lab Number:** L1516351**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

Lab ID: L1516351-18 D

Date Collected: 07/15/15 12:40

Client ID: DP-092-SO-050-01

Date Received: 07/15/15

Sample Location: Not Specified

Field Prep: Not Specified

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8015C(M)

Extraction Date: 07/17/15 14:39

Analytical Date: 07/20/15 22:46

Analyst: AR

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Petroleum Hydrocarbon Quantitation - Westborough Lab

DROD (C9-C44)	1860		mg/kg	395	44.0	10
---------------	------	--	-------	-----	------	----

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	85		40-140

**Project Name:** BUZZARD POINT**Lab Number:** L1516351**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

Lab ID: L1516351-18 D

Date Collected: 07/15/15 12:40

Client ID: DP-092-SO-050-01

Date Received: 07/15/15

Sample Location: Not Specified

Field Prep: Not Specified

Matrix: Soil

Extraction Method:

Analytical Method: 1,8015C(M)

Analytical Date: 07/21/15 06:43

Analyst: BS

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	150		mg/kg	29	0.56	10
-------------------------	-----	--	-------	----	------	----

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	102		70-130
4-Bromofluorobenzene	102		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-19 D  
 Client ID: DP-092-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 23:18  
 Analyst: AR  
 Percent Solids: 85%

Date Collected: 07/15/15 12:45  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 14:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	8650		mg/kg	1860	208.	50
---------------	------	--	-------	------	------	----

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	0	Q	40-140



**Project Name:** BUZZARD POINT**Lab Number:** L1516351**Project Number:** 40223-002**Report Date:** 07/21/15**SAMPLE RESULTS**

Lab ID: L1516351-19 D

Date Collected: 07/15/15 12:45

Client ID: DP-092-SO-100-01

Date Received: 07/15/15

Sample Location: Not Specified

Field Prep: Not Specified

Matrix: Soil

Extraction Method:

Analytical Method: 1,8015C(M)

Analytical Date: 07/21/15 07:23

Analyst: BS

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Gasoline Range Organics - Westborough Lab

Gasoline Range Organics	320		mg/kg	26	0.50	10
-------------------------	-----	--	-------	----	------	----

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	108		70-130
4-Bromofluorobenzene	89		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-20  
 Client ID: DP-093-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 19:36  
 Analyst: AR  
 Percent Solids: 89%

Date Collected: 07/15/15 13:10  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 14:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	4.83	J	mg/kg	36.2	4.04	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-20  
 Client ID: DP-093-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/21/15 01:28  
 Analyst: BS  
 Percent Solids: 89%

Date Collected: 07/15/15 13:10  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.8	0.054	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	104		70-130
4-Bromofluorobenzene	109		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-21  
 Client ID: DP-093-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 20:12  
 Analyst: AR  
 Percent Solids: 84%

Date Collected: 07/15/15 13:15  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 14:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	9.27	J	mg/kg	38.9	4.34	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	70		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-21  
 Client ID: DP-093-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/21/15 02:07  
 Analyst: BS  
 Percent Solids: 84%

Date Collected: 07/15/15 13:15  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.053	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	107		70-130
4-Bromofluorobenzene	109		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-22  
 Client ID: DP-093-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 20:48  
 Analyst: AR  
 Percent Solids: 91%

Date Collected: 07/15/15 13:15  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 14:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	11.1	J	mg/kg	35.2	3.92	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	87		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-22  
 Client ID: DP-093-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/21/15 02:47  
 Analyst: BS  
 Percent Solids: 91%

Date Collected: 07/15/15 13:15  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.052	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	104		70-130
4-Bromofluorobenzene	107		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-23  
 Client ID: DP-094-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 21:23  
 Analyst: AR  
 Percent Solids: 82%

Date Collected: 07/15/15 13:30  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 14:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	5.60	J	mg/kg	38.3	4.28	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	84		40-140



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-23  
 Client ID: DP-094-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/21/15 03:26  
 Analyst: BS  
 Percent Solids: 82%

Date Collected: 07/15/15 13:30  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	3.0	0.058	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	104		70-130
4-Bromofluorobenzene	106		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-24  
 Client ID: DP-094-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/19/15 21:59  
 Analyst: AR  
 Percent Solids: 90%

Date Collected: 07/15/15 13:35  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/17/15 14:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	5.19	J	mg/kg	36.4	4.06	1
---------------	------	---	-------	------	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	82		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-24  
 Client ID: DP-094-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/21/15 04:06  
 Analyst: BS  
 Percent Solids: 90%

Date Collected: 07/15/15 13:35  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		mg/kg	2.7	0.053	1
-------------------------	----	--	-------	-----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	109		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-25  
 Client ID: EB01-071515  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 18:25  
 Analyst: AR

Date Collected: 07/15/15 14:00  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3510C  
 Extraction Date: 07/17/15 08:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Petroleum Hydrocarbon Quantitation - Westborough Lab						
--	--	--	--	--	--	--

DROD (C9-C44)	63.9	J	ug/l	500	21.0	1
---------------	------	---	------	-----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-25  
 Client ID: EB01-071515  
 Sample Location: Not Specified  
 Matrix: Water  
 Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 22:51  
 Analyst: BS

Date Collected: 07/15/15 14:00  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Gasoline Range Organics - Westborough Lab						
---	--	--	--	--	--	--

Gasoline Range Organics	ND		ug/l	50	3.0	1
-------------------------	----	--	------	----	-----	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	94		70-130
4-Bromofluorobenzene	99		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/20/15 16:48  
**Analyst:** AR

**Extraction Method:** EPA 3510C  
**Extraction Date:** 07/17/15 08:21

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 25 Batch: WG803636-1					
Total Petroleum Hydrocarbons (C9-C44)	41.6	J	ug/l	500	21.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8015C(M)  
**Analytical Date:** 07/19/15 13:33  
**Analyst:** AR

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/17/15 14:39

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 13-24 Batch: WG803796-1					
Total Petroleum Hydrocarbons (C9-C44)	4.29	J	mg/kg	31.4	3.50

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	80		40-140

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 10:16  
 Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 13-15 Batch: WG804568-3					
Gasoline Range Organics	ND		mg/kg	2.5	0.048

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	108		70-130
4-Bromofluorobenzene	115		70-130



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8015C(M)  
 Analytical Date: 07/20/15 22:11  
 Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 25 Batch: WG804571-6					
Gasoline Range Organics	ND		ug/l	50	3.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	106		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8015C(M)  
Analytical Date: 07/20/15 22:11  
Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 16-24 Batch: WG804574-3					
Gasoline Range Organics	ND		mg/kg	2.5	0.048

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	101		70-130
4-Bromofluorobenzene	106		70-130

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 25 Batch: WG803636-2 WG803636-3								
DROD (C9-C44)	62		46		40-140	30		40

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
o-Terphenyl	74		54		40-140

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 13-24 Batch: WG803796-2								
Total Petroleum Hydrocarbons (C9-C44)	91		-		40-140	-		40

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
o-Terphenyl	86				40-140

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 13-15 Batch: WG804568-1 WG804568-2								
Gasoline Range Organics	96		98		80-120	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	105		106		70-130
4-Bromofluorobenzene	113		115		70-130

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Gasoline Range Organics - Westborough Lab Associated sample(s): 25 Batch: WG804571-4 WG804571-5								
Gasoline Range Organics	93		94		80-120	1		20

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,1,1-Trifluorotoluene	103		104		70-130
4-Bromofluorobenzene	110		109		70-130

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 16-24 Batch: WG804574-1 WG804574-2								
Gasoline Range Organics	93		94		80-120	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	103		104		70-130
4-Bromofluorobenzene	110		109		70-130

## Matrix Spike Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Gasoline Range Organics - Westborough Lab Associated sample(s): 13-15 QC Batch ID: WG804568-5 QC Sample: L1516217-09 Client ID: MS Sample												
Gasoline Range Organics	ND	22.2	20	91		-	-		80-120	-		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1,1,1-Trifluorotoluene	105				70-130
4-Bromofluorobenzene	113				70-130



## Matrix Spike Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Gasoline Range Organics - Westborough Lab Associated sample(s): 16-24 QC Batch ID: WG804574-5 QC Sample: L1516351-16 Client ID: DP-091-SO-100-01												
Gasoline Range Organics	ND	22	18	84		-	-		80-120	-		20

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1,1,1-Trifluorotoluene	100				70-130
4-Bromofluorobenzene	103				70-130

**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** BUZZARD POINT

**Project Number:** 40223-002

**Lab Number:** L1516351

**Report Date:** 07/21/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 13-24 QC Batch ID: WG803796-3 QC Sample: L1516351-13 Client ID: DP-090-SO-050-01						
Total Petroleum Hydrocarbons (C9-C44)	5.46J	7.17J	mg/kg	NC		40

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	83		89		40-140

## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 13-15 QC Batch ID: WG804568-4 QC Sample: L1516217-09 Client ID: DUP Sample					
Gasoline Range Organics	ND	ND	mg/kg	NC	20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	100		105		70-130
4-Bromofluorobenzene	107		113		70-130

**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** BUZZARD POINT

**Project Number:** 40223-002

**Lab Number:** L1516351

**Report Date:** 07/21/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 16-24 QC Batch ID: WG804574-4 QC Sample: L1516351-16 Client ID: DP-091-SO-100-01					
Gasoline Range Organics	ND	ND	mg/kg	NC	20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	94		104		70-130
4-Bromofluorobenzene	99		108		70-130



# PCBS

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516351-02  
**Client ID:** DP-085-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/18/15 04:14  
**Analyst:** JW  
**Percent Solids:** 91%

**Date Collected:** 07/15/15 09:25  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/16/15 08:33  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0352	0.00278	1	A
Aroclor 1221	ND		mg/kg	0.0352	0.00325	1	A
Aroclor 1232	ND		mg/kg	0.0352	0.00413	1	A
Aroclor 1242	ND		mg/kg	0.0352	0.00432	1	A
Aroclor 1248	ND		mg/kg	0.0352	0.00298	1	A
Aroclor 1254	ND		mg/kg	0.0352	0.00290	1	A
Aroclor 1260	ND		mg/kg	0.0352	0.00269	1	A
Aroclor 1262	ND		mg/kg	0.0352	0.00175	1	A
Aroclor 1268	ND		mg/kg	0.0352	0.00511	1	A
PCBs, Total	ND		mg/kg	0.0352	0.00175	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	66		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516351-03  
**Client ID:** DP-085-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/18/15 04:30  
**Analyst:** JW  
**Percent Solids:** 94%

**Date Collected:** 07/15/15 09:30  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/16/15 08:33  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0347	0.00274	1	A
Aroclor 1221	ND		mg/kg	0.0347	0.00320	1	A
Aroclor 1232	ND		mg/kg	0.0347	0.00407	1	A
Aroclor 1242	ND		mg/kg	0.0347	0.00425	1	A
Aroclor 1248	ND		mg/kg	0.0347	0.00293	1	A
Aroclor 1254	ND		mg/kg	0.0347	0.00285	1	A
Aroclor 1260	ND		mg/kg	0.0347	0.00264	1	A
Aroclor 1262	ND		mg/kg	0.0347	0.00172	1	A
Aroclor 1268	ND		mg/kg	0.0347	0.00503	1	A
PCBs, Total	ND		mg/kg	0.0347	0.00172	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	84		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-04 D  
 Client ID: DP-086-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 07/21/15 12:55  
 Analyst: JW  
 Percent Solids: 88%

Date Collected: 07/15/15 09:45  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/16/15 08:33  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 07/16/15  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.184	0.0145	5	A
Aroclor 1221	ND		mg/kg	0.184	0.0170	5	A
Aroclor 1232	ND		mg/kg	0.184	0.0216	5	A
Aroclor 1242	ND		mg/kg	0.184	0.0225	5	A
Aroclor 1248	ND		mg/kg	0.184	0.0155	5	A
Aroclor 1254	0.580		mg/kg	0.184	0.0151	5	B
Aroclor 1260	1.10		mg/kg	0.184	0.0140	5	B
Aroclor 1262	ND		mg/kg	0.184	0.00913	5	A
Aroclor 1268	ND		mg/kg	0.184	0.0267	5	A
PCBs, Total	1.68		mg/kg	0.184	0.00913	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	81		30-150	B



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516351-05  
**Client ID:** DP-086-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/18/15 05:02  
**Analyst:** JW  
**Percent Solids:** 87%

**Date Collected:** 07/15/15 09:50  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/16/15 08:33  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0373	0.00295	1	A
Aroclor 1221	ND		mg/kg	0.0373	0.00344	1	A
Aroclor 1232	ND		mg/kg	0.0373	0.00437	1	A
Aroclor 1242	ND		mg/kg	0.0373	0.00457	1	A
Aroclor 1248	ND		mg/kg	0.0373	0.00315	1	A
Aroclor 1254	ND		mg/kg	0.0373	0.00307	1	A
Aroclor 1260	ND		mg/kg	0.0373	0.00284	1	A
Aroclor 1262	ND		mg/kg	0.0373	0.00185	1	A
Aroclor 1268	ND		mg/kg	0.0373	0.00541	1	A
PCBs, Total	ND		mg/kg	0.0373	0.00185	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	93		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516351-06 D  
**Client ID:** DP-086-SO-010-02  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/21/15 13:11  
**Analyst:** JW  
**Percent Solids:** 90%

**Date Collected:** 07/15/15 09:45  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/16/15 08:33  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.185	0.0146	5	A
Aroclor 1221	ND		mg/kg	0.185	0.0170	5	A
Aroclor 1232	ND		mg/kg	0.185	0.0217	5	A
Aroclor 1242	ND		mg/kg	0.185	0.0226	5	A
Aroclor 1248	ND		mg/kg	0.185	0.0156	5	A
Aroclor 1254	0.532		mg/kg	0.185	0.0152	5	B
Aroclor 1260	1.93		mg/kg	0.185	0.0141	5	B
Aroclor 1262	ND		mg/kg	0.185	0.00917	5	A
Aroclor 1268	ND		mg/kg	0.185	0.0268	5	A
PCBs, Total	2.46		mg/kg	0.185	0.00917	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	77		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-07  
 Client ID: DP-087-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 07/18/15 05:35  
 Analyst: JW  
 Percent Solids: 83%

Date Collected: 07/15/15 10:15  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/16/15 08:33  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 07/16/15  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0398	0.00315	1	A
Aroclor 1221	ND		mg/kg	0.0398	0.00367	1	A
Aroclor 1232	ND		mg/kg	0.0398	0.00467	1	A
Aroclor 1242	ND		mg/kg	0.0398	0.00488	1	A
Aroclor 1248	ND		mg/kg	0.0398	0.00336	1	A
Aroclor 1254	ND		mg/kg	0.0398	0.00327	1	A
Aroclor 1260	0.0271	J	mg/kg	0.0398	0.00304	1	B
Aroclor 1262	ND		mg/kg	0.0398	0.00198	1	A
Aroclor 1268	ND		mg/kg	0.0398	0.00578	1	A
PCBs, Total	0.0271	J	mg/kg	0.0398	0.00198	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	114		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516351-08  
**Client ID:** DP-087-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/18/15 05:52  
**Analyst:** JW  
**Percent Solids:** 87%

**Date Collected:** 07/15/15 10:20  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/16/15 08:33  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0382	0.00302	1	A
Aroclor 1221	ND		mg/kg	0.0382	0.00352	1	A
Aroclor 1232	ND		mg/kg	0.0382	0.00448	1	A
Aroclor 1242	ND		mg/kg	0.0382	0.00468	1	A
Aroclor 1248	ND		mg/kg	0.0382	0.00322	1	A
Aroclor 1254	ND		mg/kg	0.0382	0.00314	1	A
Aroclor 1260	0.0112	J	mg/kg	0.0382	0.00291	1	B
Aroclor 1262	ND		mg/kg	0.0382	0.00190	1	A
Aroclor 1268	ND		mg/kg	0.0382	0.00554	1	A
PCBs, Total	0.0112	J	mg/kg	0.0382	0.00190	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	96		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516351-09  
**Client ID:** DP-088-SO-010-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/18/15 06:09  
**Analyst:** JW  
**Percent Solids:** 95%

**Date Collected:** 07/15/15 10:30  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/16/15 08:33  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0340	0.00268	1	A
Aroclor 1221	ND		mg/kg	0.0340	0.00313	1	A
Aroclor 1232	ND		mg/kg	0.0340	0.00398	1	A
Aroclor 1242	ND		mg/kg	0.0340	0.00416	1	A
Aroclor 1248	ND		mg/kg	0.0340	0.00287	1	A
Aroclor 1254	ND		mg/kg	0.0340	0.00279	1	A
Aroclor 1260	ND		mg/kg	0.0340	0.00259	1	A
Aroclor 1262	ND		mg/kg	0.0340	0.00168	1	A
Aroclor 1268	ND		mg/kg	0.0340	0.00492	1	A
PCBs, Total	ND		mg/kg	0.0340	0.00168	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	100		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-10  
 Client ID: DP-088-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 07/18/15 06:26  
 Analyst: JW  
 Percent Solids: 88%

Date Collected: 07/15/15 10:35  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/16/15 08:33  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 07/16/15  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0371	0.00293	1	A
Aroclor 1221	ND		mg/kg	0.0371	0.00342	1	A
Aroclor 1232	ND		mg/kg	0.0371	0.00435	1	A
Aroclor 1242	ND		mg/kg	0.0371	0.00454	1	A
Aroclor 1248	ND		mg/kg	0.0371	0.00313	1	A
Aroclor 1254	0.578	P	mg/kg	0.0371	0.00305	1	B
Aroclor 1260	ND		mg/kg	0.0371	0.00283	1	A
Aroclor 1262	ND		mg/kg	0.0371	0.00184	1	A
Aroclor 1268	ND		mg/kg	0.0371	0.00538	1	A
PCBs, Total	0.578		mg/kg	0.0371	0.00184	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	85		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-11  
 Client ID: DP-089-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 07/18/15 06:43  
 Analyst: JW  
 Percent Solids: 86%

Date Collected: 07/15/15 10:40  
 Date Received: 07/15/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/16/15 08:33  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 07/16/15  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0389	0.00307	1	A
Aroclor 1221	ND		mg/kg	0.0389	0.00359	1	A
Aroclor 1232	ND		mg/kg	0.0389	0.00456	1	A
Aroclor 1242	ND		mg/kg	0.0389	0.00476	1	A
Aroclor 1248	ND		mg/kg	0.0389	0.00328	1	A
Aroclor 1254	ND		mg/kg	0.0389	0.00320	1	A
Aroclor 1260	ND		mg/kg	0.0389	0.00296	1	A
Aroclor 1262	ND		mg/kg	0.0389	0.00193	1	A
Aroclor 1268	ND		mg/kg	0.0389	0.00564	1	A
PCBs, Total	ND		mg/kg	0.0389	0.00193	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	78		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516351-12  
**Client ID:** DP-089-SO-050-01  
**Sample Location:** Not Specified  
**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/18/15 06:58  
**Analyst:** JW  
**Percent Solids:** 88%

**Date Collected:** 07/15/15 10:45  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3546  
**Extraction Date:** 07/16/15 08:33  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		mg/kg	0.0379	0.00299	1	A
Aroclor 1221	ND		mg/kg	0.0379	0.00349	1	A
Aroclor 1232	ND		mg/kg	0.0379	0.00444	1	A
Aroclor 1242	ND		mg/kg	0.0379	0.00464	1	A
Aroclor 1248	ND		mg/kg	0.0379	0.00320	1	A
Aroclor 1254	ND		mg/kg	0.0379	0.00311	1	A
Aroclor 1260	ND		mg/kg	0.0379	0.00289	1	A
Aroclor 1262	ND		mg/kg	0.0379	0.00188	1	A
Aroclor 1268	ND		mg/kg	0.0379	0.00549	1	A
PCBs, Total	ND		mg/kg	0.0379	0.00188	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	77		30-150	B



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**SAMPLE RESULTS**

**Lab ID:** L1516351-25  
**Client ID:** EB01-071515  
**Sample Location:** Not Specified  
**Matrix:** Water  
**Analytical Method:** 1,8082A  
**Analytical Date:** 07/18/15 22:39  
**Analyst:** JT

**Date Collected:** 07/15/15 14:00  
**Date Received:** 07/15/15  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 07/17/15 08:21  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/17/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/17/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/l	0.250	0.066	1	A
Aroclor 1221	ND		ug/l	0.250	0.064	1	A
Aroclor 1232	ND		ug/l	0.250	0.037	1	A
Aroclor 1242	ND		ug/l	0.250	0.072	1	A
Aroclor 1248	ND		ug/l	0.250	0.061	1	A
Aroclor 1254	ND		ug/l	0.250	0.041	1	A
Aroclor 1260	ND		ug/l	0.250	0.038	1	A
Aroclor 1262	ND		ug/l	0.250	0.035	1	A
Aroclor 1268	ND		ug/l	0.250	0.045	1	A
PCBs, Total	ND		ug/l	0.250	0.035	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	58		30-150	B

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8082A  
**Analytical Date:** 07/18/15 07:15  
**Analyst:** JW

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/16/15 08:33  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 07/16/15  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/16/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02-12 Batch: WG803227-1						
Aroclor 1016	ND		mg/kg	0.0333	0.00263	A
Aroclor 1221	ND		mg/kg	0.0333	0.00307	A
Aroclor 1232	ND		mg/kg	0.0333	0.00390	A
Aroclor 1242	ND		mg/kg	0.0333	0.00408	A
Aroclor 1248	ND		mg/kg	0.0333	0.00281	A
Aroclor 1254	ND		mg/kg	0.0333	0.00274	A
Aroclor 1260	ND		mg/kg	0.0333	0.00254	A
Aroclor 1262	ND		mg/kg	0.0333	0.00165	A
Aroclor 1268	ND		mg/kg	0.0333	0.00483	A
PCBs, Total	ND		mg/kg	0.0333	0.00165	A

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: BUZZARD POINT

Lab Number: L1516351

Project Number: 40223-002

Report Date: 07/21/15

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 07/18/15 22:55  
Analyst: JT

Extraction Method: EPA 3510C  
Extraction Date: 07/17/15 08:21  
Cleanup Method: EPA 3665A  
Cleanup Date: 07/17/15  
Cleanup Method: EPA 3660B  
Cleanup Date: 07/17/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 25 Batch: WG803633-1						
Aroclor 1016	ND		ug/l	0.250	0.066	A
Aroclor 1221	ND		ug/l	0.250	0.064	A
Aroclor 1232	ND		ug/l	0.250	0.037	A
Aroclor 1242	ND		ug/l	0.250	0.072	A
Aroclor 1248	ND		ug/l	0.250	0.061	A
Aroclor 1254	ND		ug/l	0.250	0.041	A
Aroclor 1260	ND		ug/l	0.250	0.038	A
Aroclor 1262	ND		ug/l	0.250	0.035	A
Aroclor 1268	ND		ug/l	0.250	0.045	A
PCBs, Total	ND		ug/l	0.250	0.035	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	116		30-150	B

## Lab Control Sample Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02-12 Batch: WG803227-2 WG803227-3									
Aroclor 1016	56		68		40-140	19		50	A
Aroclor 1260	56		68		40-140	19		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		71		30-150	A
Decachlorobiphenyl	68		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		80		30-150	B
Decachlorobiphenyl	75		91		30-150	B

## Lab Control Sample Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 25 Batch: WG803633-2 WG803633-3									
Aroclor 1016	76		93		40-140	20		50	A
Aroclor 1260	86		102		40-140	17		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		72		30-150	A
Decachlorobiphenyl	96		112		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		79		30-150	B
Decachlorobiphenyl	107		122		30-150	B

# **INORGANICS & MISCELLANEOUS**

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-02  
 Client ID: DP-085-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 09:25  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.2		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

**SAMPLE RESULTS**

Lab ID: L1516351-03  
 Client ID: DP-085-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 09:30  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.6		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT





Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-04  
 Client ID: DP-086-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 09:45  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-05  
 Client ID: DP-086-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 09:50  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-06  
 Client ID: DP-086-SO-010-02  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 09:45  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	07/17/15 03:48	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-07  
 Client ID: DP-087-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 10:15  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-08  
 Client ID: DP-087-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 10:20  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-09  
 Client ID: DP-088-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 10:30  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.4		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-10  
 Client ID: DP-088-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 10:35  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-11  
 Client ID: DP-089-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 10:40  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.7		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT





Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-12  
 Client ID: DP-089-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 10:45  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-13  
 Client ID: DP-090-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 11:45  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-14  
 Client ID: DP-090-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 11:50  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-15  
 Client ID: DP-091-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 12:05  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.7		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-16  
 Client ID: DP-091-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 12:10  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-17  
 Client ID: DP-092-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 12:35  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.0		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-18  
 Client ID: DP-092-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 12:40  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.3		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-19  
 Client ID: DP-092-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 12:45  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.3		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT





Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-20  
 Client ID: DP-093-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 13:10  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.9		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-21  
 Client ID: DP-093-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 13:15  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-22  
 Client ID: DP-093-SO-100-02  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 13:15  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	07/17/15 03:48	30,2540G	RT



Project Name: BUZZARD POINT

Lab Number: L1516351

Project Number: 40223-002

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-23  
 Client ID: DP-094-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 13:30  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

## SAMPLE RESULTS

Lab ID: L1516351-24  
 Client ID: DP-094-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 13:35  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	07/17/15 03:48	30,2540G	RT



## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-05,07-21,23 QC Batch ID: WG803527-1 QC Sample: L1516351-02 Client ID: DP-085-SO-010-01						
Solids, Total	91.2	92.1	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 06,22,24 QC Batch ID: WG803570-1 QC Sample: L1515779-01 Client ID: DUP Sample						
Solids, Total	95.6	96.0	%	0		20

Project Name: BUZZARD POINT

Lab Number: L1516351

Project Number: 40223-002

Report Date: 07/21/15

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

## Cooler Information Custody Seal

## Cooler

A Absent  
B Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516351-01A	Vial HCl preserved	A	N/A	3.1	Y	Absent	PA-8260(14)
L1516351-01B	Vial HCl preserved	A	N/A	3.1	Y	Absent	PA-8260(14)
L1516351-01C	Vial HCl preserved	A	N/A	3.1	Y	Absent	PA-8260(14)
L1516351-02A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516351-02B	Glass 250ml/8oz unpreserved	A	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516351-03A	Vial Large Septa unpreserved (4o	B	N/A	2.6	Y	Absent	HOLD-8260(14)
L1516351-03B	Glass 250ml/8oz unpreserved	B	N/A	2.6	Y	Absent	PA-8082(14),TS(7)
L1516351-04A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516351-04B	Glass 250ml/8oz unpreserved	A	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516351-05A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516351-05B	Glass 250ml/8oz unpreserved	A	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516351-06A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	HOLD-8260(14),PA-8082(14),TS(7)
L1516351-07A	Vial Large Septa unpreserved (4o	B	N/A	2.6	Y	Absent	HOLD-8260(14)
L1516351-07B	Glass 250ml/8oz unpreserved	A	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516351-08A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516351-08B	Glass 250ml/8oz unpreserved	A	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516351-09A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516351-09B	Glass 250ml/8oz unpreserved	B	N/A	2.6	Y	Absent	PA-8082(14),TS(7)
L1516351-10A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516351-10B	Glass 250ml/8oz unpreserved	A	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516351-11A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516351-11B	Glass 250ml/8oz unpreserved	A	N/A	3.1	Y	Absent	PA-8082(14),TS(7)
L1516351-12A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	HOLD-8260(14)
L1516351-12B	Glass 250ml/8oz unpreserved	B	N/A	2.6	Y	Absent	PA-8082(14),TS(7)
L1516351-13A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)

\*Values in parentheses indicate holding time in days

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516351-13A9	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	PA-TPH-GRO(14)
L1516351-13B	Glass 250ml/8oz unpreserved	A	N/A	3.1	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1516351-14A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516351-14A9	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	PA-TPH-GRO(14)
L1516351-14B	Glass 250ml/8oz unpreserved	A	N/A	3.1	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1516351-15A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516351-15A9	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	PA-TPH-GRO(14)
L1516351-15B	Glass 250ml/8oz unpreserved	A	N/A	3.1	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1516351-16A	Vial Large Septa unpreserved (4o	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516351-16A9	Vial MeOH preserved split	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14)
L1516351-16B	Glass 250ml/8oz unpreserved	B	N/A	2.6	Y	Absent	TS(7),PA-TPH-DROD-C44(14)
L1516351-17A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516351-17A9	Vial MeOH preserved split	A	N/A	3.1	Y	Absent	PA-TPH-GRO(14)
L1516351-17B	Glass 250ml/8oz unpreserved	A	N/A	3.1	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516351-18A	Vial Large Septa unpreserved (4o	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516351-18A9	Vial MeOH preserved split	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14)
L1516351-18B	Glass 250ml/8oz unpreserved	A	N/A	3.1	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516351-19A	Vial Large Septa unpreserved (4o	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516351-19A9	Vial MeOH preserved split	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14)
L1516351-19B	Glass 250ml/8oz unpreserved	B	N/A	2.6	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516351-20A	Vial Large Septa unpreserved (4o	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516351-20A9	Vial MeOH preserved split	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14)
L1516351-20B	Glass 250ml/8oz unpreserved	B	N/A	2.6	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516351-21A	Vial Large Septa unpreserved (4o	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516351-21A9	Vial MeOH preserved split	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14)
L1516351-21B	Glass 250ml/8oz unpreserved	B	N/A	2.6	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516351-22A	Glass 250ml/8oz unpreserved	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14),TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516351-22A9	Vial MeOH preserved split	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14)
L1516351-23A	Vial Large Septa unpreserved (4o	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)

\*Values in parentheses indicate holding time in days





Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516351

Report Date: 07/21/15

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516351-23A9	Vial MeOH preserved split	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14)
L1516351-23B	Glass 250ml/8oz unpreserved	B	N/A	2.6	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516351-24A	Vial Large Septa unpreserved (4o	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14),HOLD-8260(14)
L1516351-24A9	Vial MeOH preserved split	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14)
L1516351-24B	Glass 250ml/8oz unpreserved	B	N/A	2.6	Y	Absent	TS(7),PA-TPH-DROD-C44(14),PA-8270(14)
L1516351-25A	Vial HCl preserved	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14)
L1516351-25B	Vial HCl preserved	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14)
L1516351-25C	Vial HCl preserved	B	N/A	2.6	Y	Absent	PA-TPH-GRO(14)
L1516351-25E	Amber 1000ml unpreserved	B	7	2.6	Y	Absent	PA-8082(7)
L1516351-25F	Amber 1000ml unpreserved	B	7	2.6	Y	Absent	PA-TPH-DROD-C44(7)
L1516351-25G	Amber 1000ml unpreserved	B	7	2.6	Y	Absent	PA-8270(7)
L1516351-25H	Plastic 250ml HNO3 preserved	B	<2	2.6	Y	Absent	HOLD-METAL(180)

\*Values in parentheses indicate holding time in days

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

#### Data Qualifiers

- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516351  
**Report Date:** 07/21/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

Last revised December 16, 2014

**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:**

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.









# CHAIN OF CUSTODY

PAGE 2 OF 3



WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

Date Rec'd in Lab: 7/16/15

ALPHA Job #: L1516351

### Project Information

### Report Information - Data Deliverables

### Billing Information

### Client Information

### Turn-Around Time

FAX       EMAIL  
 ADEX       Add'l Deliverables

Same as Client info      PO #:

Client: Haley + Aldrich

Project #: 40223-002

### Regulatory Requirements/Report Limits

Address: 5333 Mission center Rd

Project Manager:

State /Fed Program	Criteria

San Diego, CA 92108

ALPHA Quote #:

Phone: 619-285-7122

Turn-Around Time

Fax:

Standard       RUSH (only confirmed if pre-approved!)

Email: dkennard@haleyaldrich.com

Date Due:      Time:

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

**ANALYSIS**

**PCBs (EPA 8082)**  
**TPH C6 + C14 (EPA 8015)**  
**PAHs (EPA 8270c)**

**TOTAL # BOTTLES**

**SAMPLE HANDLING**

Filtration \_\_\_\_\_

Done

Not needed

Lab to do

**Preservation**

Lab to do

(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS		SAMPLE HANDLING	TOTAL # BOTTLES
		Date	Time			PCBs (EPA 8082)	TPH C6 + C14 (EPA 8015)		
16351-11	DP-089-50-010-01	7/15/15	10:40	SO	AF	X			2
12	DP-089-50-050-01	7/15/15	10:45	SO	AF	X			2
13	DP-090-50-050-01		1145			X			2
14	DP-090-50-100-01		1150			X			2
15	DP-091-50-050-01		1205			X			2
16	DP-091-50-100-01		1210			X			2
17	DP-092-50-010-01		1235			X	X		2
18	DP-092-50-050-01		1240			X	X		2
19	DP-092-50-100-01		1245			X	X		2

Container Type	
Preservative	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	7/15/15 1415	<i>[Signature]</i>	7/15/15 1415
<i>[Signature]</i>	7/15/15 2000	<i>[Signature]</i>	7/15/15 2000
<i>[Signature]</i>	7/15/15 2220	<i>[Signature]</i>	7/15/15 2220
<i>[Signature]</i>	7/16/15 0230	<i>[Signature]</i>	7/16/15 0230

# CHAIN OF CUSTODY

PAGE 3 OF 3



ESTBORO, MA  
 L: 508-898-9220  
 X: 508-898-9193

MANSFIELD, MA  
 TEL: 508-822-9300  
 FAX: 508-822-3288

## Project Information

Project Name:  
 Project Location:  
 Project #: 40223-002  
 Project Manager:  
 ALPHA Quote #:  
 Turn-Around Time

Date Rec'd in Lab: 7/16/15

ALPHA Job #: C1516351

## Report Information - Data Deliverables

FAX  EMAIL  
 ADEX  Add'l Deliverables

## Billing Information

Same as Client info PO #:

## Client Information

Client: Haley + Aldrich  
 Address: 5333 Mission center Rd  
San Diego, CA 92108  
 Phone: 619-285-7122  
 Email: kennard@haleyaldrich.com

Standard  RUSH (only confirmed if pre-approved!)  
 Date Due: Time:

## Regulatory Requirements/Report Limits

State /Fed Program Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS  
 TPH (C6 to C44) (EPA 801)  
 PAHs (EPA 8270e)  
 PCBs (EPA 8082)

**SAMPLE HANDLING**  
 Filtration \_\_\_\_\_  
 Done  
 Not needed  
 Preservation  
 Lab to do  
 Lab to do  
 (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS			TOTAL # BOTTLES
		Date	Time			TPH (C6 to C44) (EPA 801)	PAHs (EPA 8270e)	PCBs (EPA 8082)	
5351-20	DP-093-50-050-01	7/15/15	1310	SO	AF	X	X		2
21	DP-093-50-100-01		1315			X	X		2
22	DP-093-50-100-02		1315			X	X		1
23	DP-094-50-050-01		1330			X	X		2
24	DP-094-50-100-01		1335	↓		X	X		2
25	EB01-071515	↓	1400	W		X	X	X	7

*Handwritten signature and date 7/16/15*

Container Type	
Preservative	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	7/15/15 1415	<i>[Signature]</i>	7/15/15 1415
<i>[Signature]</i>	7/15/15 2000	<i>[Signature]</i>	7/15/15 2000
<i>[Signature]</i>	7/15/15 2220	<i>[Signature]</i>	7/15/15 2220

# CHAIN OF CUSTODY

PAGE 3 OF 3



WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

Date Rec'd in Lab: 7/16/15

ALPHA Job #: L1516351

## Report Information - Data Deliverables

- FAX       EMAIL  
 ADEx       Add'l Deliverables

## Billing Information

Same as Client info      PO #:

## Regulatory Requirements/Report Limits

State /Fed Program      Criteria

## Project Information

Project Name:  
Project Location:  
Project #: 40223-002  
Project Manager:  
ALPHA Quote #:

## Turn-Around Time

Standard       RUSH (only confirmed if pre-approved!)  
Date Due:      Time:

## Client Information

Client: Haley + Aldrich  
Address: 5333 Mission center Rd  
San Diego, CA 92108  
Phone: 619-285-7122  
Fax:

Email: kennard@haleyaldrich.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

**ANALYSIS**

**TPH (C6 to C44) (EPA 801)**

**PAHS (EPA 827PE)**

**PCBS (EPA 8082)**

**SAMPLE HANDLING**

Filtration \_\_\_\_\_

Done

Not needed

Lab to do

**Preservation**

Lab to do

(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Analysis							Sample Specific Comments	TOTAL # BOTTLES		
		Date	Time			TPH	PAHS	PCBS	Other 1	Other 2	Other 3	Other 4			Other 5	
16351-20	DP-093-50-050-01	7/15/15	1310	SO	AF	X	X									2
21	DP-093-50-100-01		1315			X	X									2
22	DP-093-50-100-02		1315			X	X									1
23	DP-094-50-050-01		1330			X	X									2
24	DP-094-50-100-01		1335	↓		X	X									2
25	EB01-71515	↓	1400	W		X	X	X								7

Relinquished By:		Date/Time	Received By:		Date/Time
<u>[Signature]</u>		<u>7/15/15 1415</u>	<u>[Signature]</u>		<u>7/15/15 1415</u>
<u>[Signature]</u>		<u>7/15/15 2000</u>	<u>[Signature]</u>		<u>7/15/15 2000</u>
<u>[Signature]</u>		<u>7/15/15 2220</u>	<u>[Signature]</u>		<u>7/15/15 2220</u>
<u>[Signature]</u>		<u>7/15/15 2230</u>	<u>[Signature]</u>		<u>7/15/15 2230</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



## ANALYTICAL REPORT

Lab Number:	L1516713
Client:	Haley & Aldrich, Inc. 5333 Mission Center Rd San Diego, CA 92108
ATTN:	Dana Kennard
Phone:	(619) 285-7108
Project Name:	BUZZARD POINT
Project Number:	40223-002
Report Date:	07/24/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516713  
**Report Date:** 07/24/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1516713-01	DP-066-SO-050-01	SOIL	Not Specified	07/13/15 08:55	07/13/15

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516713  
**Report Date:** 07/24/15

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

---

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516713  
**Report Date:** 07/24/15

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Volatile Organics

L1516713-01: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Kelly Stenstrom

Title: Technical Director/Representative

Date: 07/24/15

# ORGANICS



# VOLATILES

Project Name: BUZZARD POINT

Lab Number: L1516713

Project Number: 40223-002

Report Date: 07/24/15

## SAMPLE RESULTS

Lab ID: L1516713-01 D  
 Client ID: DP-066-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/23/15 17:55  
 Analyst: MV  
 Percent Solids: 85%

Date Collected: 07/13/15 08:55  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Dichlorodifluoromethane	ND		mg/kg	0.59	0.011	50
Chloromethane	ND		mg/kg	0.29	0.017	50
Vinyl chloride	ND		mg/kg	0.12	0.0069	50
Bromomethane	ND		mg/kg	0.12	0.020	50
Chloroethane	ND		mg/kg	0.12	0.018	50
Trichlorofluoromethane	ND		mg/kg	0.29	0.023	50
1,1-Dichloroethene	ND		mg/kg	0.059	0.015	50
Carbon disulfide	ND		mg/kg	0.59	0.064	50
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.2	0.016	50
Methylene chloride	ND		mg/kg	0.29	0.065	50
Acetone	ND		mg/kg	2.1	0.061	50
trans-1,2-Dichloroethene	ND		mg/kg	0.088	0.012	50
Methyl Acetate	ND		mg/kg	0.23	0.016	50
Methyl tert butyl ether	ND		mg/kg	0.12	0.0049	50
1,1-Dichloroethane	ND		mg/kg	0.088	0.0050	50
cis-1,2-Dichloroethene	0.027	J	mg/kg	0.059	0.0084	50
1,2-Dichloroethene, Total	0.027	J	mg/kg	0.059	0.0084	50
Cyclohexane	ND		mg/kg	1.2	0.0086	50
Bromochloromethane	ND		mg/kg	0.29	0.016	50
Chloroform	ND		mg/kg	0.088	0.022	50
Carbon tetrachloride	ND		mg/kg	0.059	0.012	50
1,1,1-Trichloroethane	ND		mg/kg	0.059	0.0065	50
2-Butanone	ND		mg/kg	0.59	0.016	50
Benzene	ND		mg/kg	0.059	0.0069	50
1,2-Dichloroethane	ND		mg/kg	0.059	0.0066	50
Methyl cyclohexane	ND		mg/kg	0.23	0.0091	50
Trichloroethene	ND		mg/kg	0.059	0.0073	50
1,2-Dichloropropane	ND		mg/kg	0.20	0.013	50
Bromodichloromethane	ND		mg/kg	0.059	0.010	50
1,4-Dioxane	ND		mg/kg	5.9	0.84	50

Project Name: BUZZARD POINT

Lab Number: L1516713

Project Number: 40223-002

Report Date: 07/24/15

## SAMPLE RESULTS

Lab ID: L1516713-01 D

Date Collected: 07/13/15 08:55

Client ID: DP-066-SO-050-01

Date Received: 07/13/15

Sample Location: Not Specified

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,3-Dichloropropene	ND		mg/kg	0.059	0.0069	50
Toluene	ND		mg/kg	0.088	0.011	50
4-Methyl-2-pentanone	ND		mg/kg	0.59	0.014	50
Tetrachloroethene	0.070		mg/kg	0.059	0.0082	50
trans-1,3-Dichloropropene	ND		mg/kg	0.059	0.0071	50
1,3-Dichloropropene, Total	ND		mg/kg	0.059	0.0069	50
1,1,2-Trichloroethane	ND		mg/kg	0.088	0.018	50
Dibromochloromethane	ND		mg/kg	0.059	0.0090	50
1,2-Dibromoethane	ND		mg/kg	0.23	0.010	50
2-Hexanone	ND		mg/kg	0.59	0.039	50
Chlorobenzene	ND		mg/kg	0.059	0.020	50
Ethylbenzene	ND		mg/kg	0.059	0.0075	50
p/m-Xylene	ND		mg/kg	0.12	0.012	50
o-Xylene	ND		mg/kg	0.12	0.010	50
Xylenes, Total	ND		mg/kg	0.12	0.010	50
Styrene	ND		mg/kg	0.12	0.024	50
Bromoform	ND		mg/kg	0.23	0.014	50
Isopropylbenzene	ND		mg/kg	0.059	0.0061	50
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.059	0.0059	50
1,3-Dichlorobenzene	ND		mg/kg	0.29	0.0079	50
1,4-Dichlorobenzene	ND		mg/kg	0.29	0.0081	50
1,2-Dichlorobenzene	ND		mg/kg	0.29	0.0090	50
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.29	0.023	50
1,2,4-Trichlorobenzene	ND		mg/kg	0.29	0.011	50
1,2,3-Trichlorobenzene	ND		mg/kg	0.29	0.0086	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516713  
**Report Date:** 07/24/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/23/15 09:22  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG805709-3					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00019
Chloromethane	ND		mg/kg	0.0050	0.00029
Vinyl chloride	ND		mg/kg	0.0020	0.00012
Bromomethane	0.0013	J	mg/kg	0.0020	0.00034
Chloroethane	ND		mg/kg	0.0020	0.00032
Trichlorofluoromethane	ND		mg/kg	0.0050	0.00039
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00026
Carbon disulfide	ND		mg/kg	0.010	0.0011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.020	0.00027
Acrolein	ND		mg/kg	0.025	0.0081
Methylene chloride	ND		mg/kg	0.0050	0.0011
Acetone	ND		mg/kg	0.036	0.0010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00021
Methyl Acetate	ND		mg/kg	0.0040	0.00027
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00008
1,1-Dichloroethane	ND		mg/kg	0.0015	0.00008
Acrylonitrile	ND		mg/kg	0.0040	0.00051
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00014
1,2-Dichloroethene (total)	ND		mg/kg	0.0010	0.00014
2,2-Dichloropropane	ND		mg/kg	0.0050	0.00023
Cyclohexane	ND		mg/kg	0.020	0.00015
Bromochloromethane	ND		mg/kg	0.0050	0.00028
Chloroform	ND		mg/kg	0.0015	0.00037
Carbon tetrachloride	ND		mg/kg	0.0010	0.00021
1,1,1-Trichloroethane	ND		mg/kg	0.0010	0.00011
2-Butanone	ND		mg/kg	0.010	0.00027
1,1-Dichloropropene	ND		mg/kg	0.0050	0.00014
Benzene	ND		mg/kg	0.0010	0.00012
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00011

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516713  
**Report Date:** 07/24/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/23/15 09:22  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG805709-3					
Methyl cyclohexane	ND		mg/kg	0.0040	0.00015
Trichloroethene	ND		mg/kg	0.0010	0.00012
1,2-Dichloropropane	ND		mg/kg	0.0035	0.00023
Bromodichloromethane	ND		mg/kg	0.0010	0.00017
1,4-Dioxane	ND		mg/kg	0.10	0.014
2-Chloroethylvinyl ether	ND		mg/kg	0.020	0.00062
cis-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00012
Toluene	ND		mg/kg	0.0015	0.00019
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.00024
Tetrachloroethene	ND		mg/kg	0.0010	0.00014
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00012
1,3-Dichloropropene, Total	ND		mg/kg	0.0010	0.00012
1,1,2-Trichloroethane	ND		mg/kg	0.0015	0.00030
Dibromochloromethane	ND		mg/kg	0.0010	0.00015
1,3-Dichloropropane	ND		mg/kg	0.0050	0.00014
1,2-Dibromoethane	ND		mg/kg	0.0040	0.00017
2-Hexanone	ND		mg/kg	0.010	0.00067
Chlorobenzene	ND		mg/kg	0.0010	0.00035
Ethylbenzene	ND		mg/kg	0.0010	0.00013
1,1,1,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00032
p/m-Xylene	ND		mg/kg	0.0020	0.00020
o-Xylene	ND		mg/kg	0.0020	0.00017
Xylene (Total)	ND		mg/kg	0.0020	0.00017
Styrene	ND		mg/kg	0.0020	0.00040
Bromoform	ND		mg/kg	0.0040	0.00024
Isopropylbenzene	ND		mg/kg	0.0010	0.00010
Bromobenzene	ND		mg/kg	0.0050	0.00021
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00010
o-Chlorotoluene	ND		mg/kg	0.0050	0.00016

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516713  
**Report Date:** 07/24/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8260C  
**Analytical Date:** 07/23/15 09:22  
**Analyst:** MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG805709-3					
1,3,5-Trimethylbenzene	ND		mg/kg	0.0050	0.00014
1,2,3-Trichloropropane	ND		mg/kg	0.010	0.00016
p-Chlorotoluene	ND		mg/kg	0.0050	0.00013
tert-Butylbenzene	ND		mg/kg	0.0050	0.00014
1,2,4-Trimethylbenzene	ND		mg/kg	0.0050	0.00014
sec-Butylbenzene	ND		mg/kg	0.0010	0.00012
p-Isopropyltoluene	ND		mg/kg	0.0010	0.00012
1,3-Dichlorobenzene	ND		mg/kg	0.0050	0.00014
1,4-Dichlorobenzene	ND		mg/kg	0.0050	0.00014
n-Butylbenzene	ND		mg/kg	0.0010	0.00011
1,2-Dichlorobenzene	ND		mg/kg	0.0050	0.00015
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0050	0.00040
Hexachlorobutadiene	ND		mg/kg	0.0050	0.00023
1,2,4-Trichlorobenzene	ND		mg/kg	0.0050	0.00018
Naphthalene	ND		mg/kg	0.0050	0.00014
1,2,3-Trichlorobenzene	ND		mg/kg	0.0050	0.00015
tert-Butyl Alcohol	ND		mg/kg	0.10	0.0029
Tertiary-Amyl Methyl Ether	ND		mg/kg	0.0040	0.00009
Isopropyl Ether	ND		mg/kg	0.0040	0.00014

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	100		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516713

Report Date: 07/24/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG805709-1 WG805709-2								
Dichlorodifluoromethane	180	Q	175	Q	30-146	3		30
Chloromethane	100		97		52-130	3		30
Vinyl chloride	115		111		67-130	4		30
Bromomethane	126		125		57-147	1		30
Chloroethane	115		107		50-151	7		30
Trichlorofluoromethane	143	Q	138		70-139	4		30
1,1-Dichloroethene	114		110		65-135	4		30
Carbon disulfide	101		98		59-130	3		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	113		111		50-139	2		30
Acrolein	66		67		51-130	2		30
Methylene chloride	97		96		70-130	1		30
Acetone	84		77		54-140	9		30
trans-1,2-Dichloroethene	106		104		70-130	2		30
Methyl Acetate	83		82		51-146	1		30
Methyl tert butyl ether	94		94		66-130	0		30
1,1-Dichloroethane	103		101		70-130	2		30
Acrylonitrile	91		90		70-130	1		30
cis-1,2-Dichloroethene	103		101		70-130	2		30
2,2-Dichloropropane	101		101		70-130	0		30
Cyclohexane	115		113		59-142	2		30
Bromochloromethane	105		104		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516713

Report Date: 07/24/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG805709-1 WG805709-2								
Chloroform	102		101		70-130	1		30
Carbon tetrachloride	117		115		70-130	2		30
1,1,1-Trichloroethane	110		108		70-130	2		30
2-Butanone	90		88		70-130	2		30
1,1-Dichloropropene	107		103		70-130	4		30
Benzene	101		99		70-130	2		30
1,2-Dichloroethane	95		94		70-130	1		30
Methyl cyclohexane	120		116		70-130	3		30
Trichloroethene	107		104		70-130	3		30
1,2-Dichloropropane	99		97		70-130	2		30
Bromodichloromethane	98		96		70-130	2		30
1,4-Dioxane	96		92		65-136	4		30
2-Chloroethylvinyl ether	119		112		70-130	6		30
cis-1,3-Dichloropropene	97		95		70-130	2		30
Toluene	104		102		70-130	2		30
4-Methyl-2-pentanone	91		93		70-130	2		30
Tetrachloroethene	117		113		70-130	3		30
trans-1,3-Dichloropropene	98		96		70-130	2		30
1,1,2-Trichloroethane	99		98		70-130	1		30
Dibromochloromethane	107		104		70-130	3		30
1,3-Dichloropropane	99		98		69-130	1		30



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516713

Report Date: 07/24/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG805709-1 WG805709-2								
1,2-Dibromoethane	103		101		70-130	2		30
2-Hexanone	77		75		70-130	3		30
Chlorobenzene	106		104		70-130	2		30
Ethylbenzene	107		103		70-130	4		30
1,1,1,2-Tetrachloroethane	107		105		70-130	2		30
p/m-Xylene	109		106		70-130	3		30
o-Xylene	106		104		70-130	2		30
Styrene	107		104		70-130	3		30
Bromoform	106		103		70-130	3		30
Isopropylbenzene	111		108		70-130	3		30
Bromobenzene	106		106		70-130	0		30
1,1,2,2-Tetrachloroethane	96		95		70-130	1		30
o-Chlorotoluene	105		103		70-130	2		30
1,3,5-Trimethylbenzene	109		107		70-130	2		30
1,2,3-Trichloropropane	98		98		68-130	0		30
p-Chlorotoluene	107		105		70-130	2		30
tert-Butylbenzene	111		108		70-130	3		30
1,2,4-Trimethylbenzene	106		104		70-130	2		30
sec-Butylbenzene	111		109		70-130	2		30
p-Isopropyltoluene	114		111		70-130	3		30
1,3-Dichlorobenzene	108		106		70-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516713

Report Date: 07/24/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG805709-1 WG805709-2								
1,4-Dichlorobenzene	107		105		70-130	2		30
n-Butylbenzene	111		109		70-130	2		30
1,2-Dichlorobenzene	105		105		70-130	0		30
1,2-Dibromo-3-chloropropane	104		102		68-130	2		30
Hexachlorobutadiene	116		115		67-130	1		30
1,2,4-Trichlorobenzene	108		109		70-130	1		30
Naphthalene	98		98		70-130	0		30
1,2,3-Trichlorobenzene	104		104		70-130	0		30
tert-Butyl Alcohol	92		89		40-160	3		30
Tertiary-Amyl Methyl Ether	94		93		70-130	1		30
Isopropyl Ether	88		88		70-130	0		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	96		95		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	97		101		70-130

# **INORGANICS & MISCELLANEOUS**

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516713

Report Date: 07/24/15

**SAMPLE RESULTS**

Lab ID: L1516713-01  
 Client ID: DP-066-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 08:55  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.3		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516713

Report Date: 07/24/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG802659-1 QC Sample: L1516001-01 Client ID: DUP Sample						
Solids, Total	88.2	87.5	%	1		20

Project Name: BUZZARD POINT

Lab Number: L1516713

Project Number: 40223-002

Report Date: 07/24/15

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516713-01A	Vial Large Septa unpreserved (4o	A	N/A	4.5	Y	Absent	PA-8260(14)

\*Values in parentheses indicate holding time in days

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516713  
**Report Date:** 07/24/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.
---	--

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

<b>A</b>	- Spectra identified as "Aldol Condensation Product".
<b>B</b>	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
<b>C</b>	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516713  
**Report Date:** 07/24/15

#### Data Qualifiers

- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516713  
**Report Date:** 07/24/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

Last revised December 16, 2014

**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:**

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



# CHAIN OF CUSTODY

Date Rec'd in Lab: 7/14/15

ALPHA Job #: L1516001

WESTBORO, MA  
 TEL: 508-898-9220  
 FAX: 508-898-9193

MANSFIELD, MA  
 TEL: 508-822-9300  
 FAX: 508-822-3288

### Project Information

Project Name:  
 Project Location:  
 Project #: 40223-002  
 Project Manager:  
 ALPHA Quote #:

### Report Information - Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

### Billing Information

Same as Client info PO #:

### Client Information

Client: Haley + Aldrich  
 Address: 5333 Mission Center Rd. San Diego, CA 92108  
 Phone: 619-285-7122  
 Fax:

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!)  
 Date Due: Time:

### Regulatory Requirements/Report Limits

State /Fed Program Criteria

Email: dkennard@haleyaldrich.com  
 These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

**ANALYSIS**

~~TPH, METALS (EPA 606)~~  
~~TPH, C6+0, CH4 (EPA 8210)~~  
~~PAHs, EPA (8270c)~~

PA-8260, TS

**SAMPLE HANDLING**

Filtration \_\_\_\_\_

Done

Not needed

Lab to do

Preservation \_\_\_\_\_

Lab to do

(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Analysis					Sample Specific Comments	TOTAL # BOTTLES	
		Date	Time			TPH	Metals	TPH, C6+0, CH4	PAHs	EPA 8270c			PA-8260, TS
<b>16713</b>	-01 DP-065-50-010-01	7/13/15	0820			X	X						3
	02 DP-065-50-050-01		0825			X	X						3
	03 DP-065-50-100-01		0830			X	X						3
	04 DP-066-50-010-01		0850			X	X						3
	<b>-01</b> DP-066-50-050-01		0855			X	X		X				3
	06 DP-066-50-100-01		0900			X	X						3
	07 DP-067-50-010-01		0925			X	X						3
	08 DP-067-50-050-01		0930			X	X						3
	09 DP-067-50-100-01		0935			X	X						3

Container Type  
 Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	7/13/15 1420	<i>[Signature]</i>	7/13/15 1420
<i>[Signature]</i>	7/13/15 1200	<i>[Signature]</i>	7/13/15 1200
<i>[Signature]</i>	7/13/15 2010	<i>[Signature]</i>	7-13-15 2010

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



## ANALYTICAL REPORT

Lab Number:	L1516838
Client:	Haley & Aldrich, Inc. 5333 Mission Center Rd San Diego, CA 92108
ATTN:	Dana Kennard
Phone:	(619) 285-7108
Project Name:	BUZZARD POINT
Project Number:	40223-002
Report Date:	07/27/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516838  
**Report Date:** 07/27/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1516838-01	DP-057-SO-050-01	SOIL	Not Specified	07/10/15 12:22	07/10/15
L1516838-02	DP-061-SO-050-01	SOIL	Not Specified	07/10/15 14:10	07/10/15

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516838  
**Report Date:** 07/27/15

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

---

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516838  
**Report Date:** 07/27/15

### Case Narrative (continued)

#### Report Submission

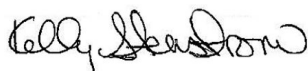
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Volatile Organics

L1516838-02: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 07/27/15

# ORGANICS



# VOLATILES

Project Name: BUZZARD POINT

Lab Number: L1516838

Project Number: 40223-002

Report Date: 07/27/15

## SAMPLE RESULTS

Lab ID: L1516838-01 D  
 Client ID: DP-057-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/23/15 11:26  
 Analyst: MV  
 Percent Solids: 86%

Date Collected: 07/10/15 12:22  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Dichlorodifluoromethane	ND		mg/kg	0.58	0.011	50
Chloromethane	ND		mg/kg	0.29	0.017	50
Vinyl chloride	ND		mg/kg	0.12	0.0068	50
Bromomethane	0.024	J	mg/kg	0.12	0.020	50
Chloroethane	ND		mg/kg	0.12	0.018	50
Trichlorofluoromethane	ND		mg/kg	0.29	0.022	50
1,1-Dichloroethene	ND		mg/kg	0.058	0.015	50
Carbon disulfide	ND		mg/kg	0.58	0.064	50
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.2	0.016	50
Methylene chloride	ND		mg/kg	0.29	0.064	50
Acetone	0.12	J	mg/kg	2.1	0.060	50
trans-1,2-Dichloroethene	ND		mg/kg	0.087	0.012	50
Methyl Acetate	ND		mg/kg	0.23	0.016	50
Methyl tert butyl ether	ND		mg/kg	0.12	0.0049	50
1,1-Dichloroethane	ND		mg/kg	0.087	0.0050	50
cis-1,2-Dichloroethene	ND		mg/kg	0.058	0.0083	50
1,2-Dichloroethene, Total	ND		mg/kg	0.058	0.0083	50
Cyclohexane	ND		mg/kg	1.2	0.0084	50
Bromochloromethane	ND		mg/kg	0.29	0.016	50
Chloroform	ND		mg/kg	0.087	0.021	50
Carbon tetrachloride	ND		mg/kg	0.058	0.012	50
1,1,1-Trichloroethane	ND		mg/kg	0.058	0.0064	50
2-Butanone	ND		mg/kg	0.58	0.016	50
Benzene	ND		mg/kg	0.058	0.0068	50
1,2-Dichloroethane	ND		mg/kg	0.058	0.0066	50
Methyl cyclohexane	0.084	J	mg/kg	0.23	0.0090	50
Trichloroethene	ND		mg/kg	0.058	0.0072	50
1,2-Dichloropropane	ND		mg/kg	0.20	0.013	50
Bromodichloromethane	ND		mg/kg	0.058	0.010	50
1,4-Dioxane	ND		mg/kg	5.8	0.84	50

Project Name: BUZZARD POINT

Lab Number: L1516838

Project Number: 40223-002

Report Date: 07/27/15

## SAMPLE RESULTS

Lab ID: L1516838-01 D

Date Collected: 07/10/15 12:22

Client ID: DP-057-SO-050-01

Date Received: 07/10/15

Sample Location: Not Specified

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,3-Dichloropropene	ND		mg/kg	0.058	0.0068	50
Toluene	ND		mg/kg	0.087	0.011	50
4-Methyl-2-pentanone	ND		mg/kg	0.58	0.014	50
Tetrachloroethene	3.6		mg/kg	0.058	0.0081	50
trans-1,3-Dichloropropene	ND		mg/kg	0.058	0.0070	50
1,3-Dichloropropene, Total	ND		mg/kg	0.058	0.0068	50
1,1,2-Trichloroethane	ND		mg/kg	0.087	0.018	50
Dibromochloromethane	ND		mg/kg	0.058	0.0089	50
1,2-Dibromoethane	ND		mg/kg	0.23	0.010	50
2-Hexanone	ND		mg/kg	0.58	0.038	50
Chlorobenzene	ND		mg/kg	0.058	0.020	50
Ethylbenzene	ND		mg/kg	0.058	0.0074	50
p/m-Xylene	ND		mg/kg	0.12	0.011	50
o-Xylene	0.098	J	mg/kg	0.12	0.010	50
Xylenes, Total	0.098	J	mg/kg	0.12	0.010	50
Styrene	ND		mg/kg	0.12	0.023	50
Bromoform	ND		mg/kg	0.23	0.014	50
Isopropylbenzene	ND		mg/kg	0.058	0.0060	50
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.058	0.0058	50
1,3-Dichlorobenzene	ND		mg/kg	0.29	0.0078	50
1,4-Dichlorobenzene	ND		mg/kg	0.29	0.0080	50
1,2-Dichlorobenzene	ND		mg/kg	0.29	0.0089	50
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.29	0.023	50
1,2,4-Trichlorobenzene	ND		mg/kg	0.29	0.010	50
1,2,3-Trichlorobenzene	ND		mg/kg	0.29	0.0086	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	76		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	85		70-130

Project Name: BUZZARD POINT

Lab Number: L1516838

Project Number: 40223-002

Report Date: 07/27/15

## SAMPLE RESULTS

Lab ID: L1516838-02 D  
 Client ID: DP-061-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/23/15 11:51  
 Analyst: MV  
 Percent Solids: 82%

Date Collected: 07/10/15 14:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by GC/MS - Westborough Lab

Dichlorodifluoromethane	ND		mg/kg	0.61	0.012	50
Chloromethane	ND		mg/kg	0.30	0.018	50
Vinyl chloride	ND		mg/kg	0.12	0.0071	50
Bromomethane	0.026	J	mg/kg	0.12	0.020	50
Chloroethane	ND		mg/kg	0.12	0.019	50
Trichlorofluoromethane	ND		mg/kg	0.30	0.024	50
1,1-Dichloroethene	ND		mg/kg	0.061	0.016	50
Carbon disulfide	ND		mg/kg	0.61	0.067	50
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	1.2	0.017	50
Methylene chloride	ND		mg/kg	0.30	0.067	50
Acetone	0.23	J	mg/kg	2.2	0.063	50
trans-1,2-Dichloroethene	ND		mg/kg	0.091	0.013	50
Methyl Acetate	ND		mg/kg	0.24	0.016	50
Methyl tert butyl ether	ND		mg/kg	0.12	0.0051	50
1,1-Dichloroethane	ND		mg/kg	0.091	0.0052	50
cis-1,2-Dichloroethene	ND		mg/kg	0.061	0.0087	50
1,2-Dichloroethene, Total	ND		mg/kg	0.061	0.0087	50
Cyclohexane	ND		mg/kg	1.2	0.0089	50
Bromochloromethane	ND		mg/kg	0.30	0.017	50
Chloroform	ND		mg/kg	0.091	0.022	50
Carbon tetrachloride	ND		mg/kg	0.061	0.013	50
1,1,1-Trichloroethane	ND		mg/kg	0.061	0.0067	50
2-Butanone	0.060	J	mg/kg	0.61	0.016	50
Benzene	ND		mg/kg	0.061	0.0072	50
1,2-Dichloroethane	ND		mg/kg	0.061	0.0069	50
Methyl cyclohexane	ND		mg/kg	0.24	0.0094	50
Trichloroethene	ND		mg/kg	0.061	0.0076	50
1,2-Dichloropropane	ND		mg/kg	0.21	0.014	50
Bromodichloromethane	ND		mg/kg	0.061	0.010	50
1,4-Dioxane	ND		mg/kg	6.1	0.88	50

Project Name: BUZZARD POINT

Lab Number: L1516838

Project Number: 40223-002

Report Date: 07/27/15

## SAMPLE RESULTS

Lab ID: L1516838-02 D

Date Collected: 07/10/15 14:10

Client ID: DP-061-SO-050-01

Date Received: 07/10/15

Sample Location: Not Specified

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,3-Dichloropropene	ND		mg/kg	0.061	0.0072	50
Toluene	ND		mg/kg	0.091	0.012	50
4-Methyl-2-pentanone	ND		mg/kg	0.61	0.015	50
Tetrachloroethene	ND		mg/kg	0.061	0.0085	50
trans-1,3-Dichloropropene	ND		mg/kg	0.061	0.0073	50
1,3-Dichloropropene, Total	ND		mg/kg	0.061	0.0072	50
1,1,2-Trichloroethane	ND		mg/kg	0.091	0.018	50
Dibromochloromethane	ND		mg/kg	0.061	0.0093	50
1,2-Dibromoethane	ND		mg/kg	0.24	0.011	50
2-Hexanone	ND		mg/kg	0.61	0.040	50
Chlorobenzene	ND		mg/kg	0.061	0.021	50
Ethylbenzene	ND		mg/kg	0.061	0.0077	50
p/m-Xylene	ND		mg/kg	0.12	0.012	50
o-Xylene	ND		mg/kg	0.12	0.010	50
Xylenes, Total	ND		mg/kg	0.12	0.010	50
Styrene	ND		mg/kg	0.12	0.024	50
Bromoform	ND		mg/kg	0.24	0.014	50
Isopropylbenzene	ND		mg/kg	0.061	0.0063	50
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.061	0.0061	50
1,3-Dichlorobenzene	ND		mg/kg	0.30	0.0082	50
1,4-Dichlorobenzene	ND		mg/kg	0.30	0.0084	50
1,2-Dichlorobenzene	ND		mg/kg	0.30	0.0093	50
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.30	0.024	50
1,2,4-Trichlorobenzene	ND		mg/kg	0.30	0.011	50
1,2,3-Trichlorobenzene	ND		mg/kg	0.30	0.0090	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	72		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	84		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516838  
**Report Date:** 07/27/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/23/15 09:17  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG805354-3					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00019
Chloromethane	ND		mg/kg	0.0050	0.00029
Vinyl chloride	ND		mg/kg	0.0020	0.00012
Bromomethane	0.00064	J	mg/kg	0.0020	0.00034
Chloroethane	ND		mg/kg	0.0020	0.00032
Trichlorofluoromethane	ND		mg/kg	0.0050	0.00039
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00026
Carbon disulfide	ND		mg/kg	0.010	0.0011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.020	0.00027
Acrolein	ND		mg/kg	0.025	0.0081
Methylene chloride	ND		mg/kg	0.0050	0.0011
Acetone	0.0031	J	mg/kg	0.036	0.0010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00021
Methyl Acetate	ND		mg/kg	0.0040	0.00027
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00008
1,1-Dichloroethane	ND		mg/kg	0.0015	0.00008
Acrylonitrile	ND		mg/kg	0.0040	0.00051
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00014
1,2-Dichloroethene (total)	ND		mg/kg	0.0010	0.00014
2,2-Dichloropropane	ND		mg/kg	0.0050	0.00023
Cyclohexane	ND		mg/kg	0.020	0.00015
Bromochloromethane	ND		mg/kg	0.0050	0.00028
Chloroform	ND		mg/kg	0.0015	0.00037
Carbon tetrachloride	ND		mg/kg	0.0010	0.00021
1,1,1-Trichloroethane	ND		mg/kg	0.0010	0.00011
2-Butanone	0.0015	J	mg/kg	0.010	0.00027
1,1-Dichloropropene	ND		mg/kg	0.0050	0.00014
Benzene	ND		mg/kg	0.0010	0.00012
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00011

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516838  
**Report Date:** 07/27/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/23/15 09:17  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG805354-3					
Methyl cyclohexane	ND		mg/kg	0.0040	0.00015
Trichloroethene	ND		mg/kg	0.0010	0.00012
1,2-Dichloropropane	ND		mg/kg	0.0035	0.00023
Bromodichloromethane	ND		mg/kg	0.0010	0.00017
1,4-Dioxane	ND		mg/kg	0.10	0.014
2-Chloroethylvinyl ether	ND		mg/kg	0.020	0.00062
cis-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00012
Toluene	ND		mg/kg	0.0015	0.00019
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.00024
Tetrachloroethene	ND		mg/kg	0.0010	0.00014
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00012
1,3-Dichloropropene, Total	ND		mg/kg	0.0010	0.00012
1,1,2-Trichloroethane	ND		mg/kg	0.0015	0.00030
Dibromochloromethane	ND		mg/kg	0.0010	0.00015
1,3-Dichloropropane	ND		mg/kg	0.0050	0.00014
1,2-Dibromoethane	ND		mg/kg	0.0040	0.00017
2-Hexanone	ND		mg/kg	0.010	0.00067
Chlorobenzene	ND		mg/kg	0.0010	0.00035
Ethylbenzene	ND		mg/kg	0.0010	0.00013
1,1,1,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00032
p/m-Xylene	ND		mg/kg	0.0020	0.00020
o-Xylene	ND		mg/kg	0.0020	0.00017
Xylene (Total)	ND		mg/kg	0.0020	0.00017
Styrene	ND		mg/kg	0.0020	0.00040
Bromoform	ND		mg/kg	0.0040	0.00024
Isopropylbenzene	ND		mg/kg	0.0010	0.00010
Bromobenzene	ND		mg/kg	0.0050	0.00021
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00010
o-Chlorotoluene	ND		mg/kg	0.0050	0.00016

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516838  
**Report Date:** 07/27/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/23/15 09:17  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG805354-3					
1,3,5-Trimethylbenzene	ND		mg/kg	0.0050	0.00014
1,2,3-Trichloropropane	ND		mg/kg	0.010	0.00016
p-Chlorotoluene	ND		mg/kg	0.0050	0.00013
tert-Butylbenzene	ND		mg/kg	0.0050	0.00014
1,2,4-Trimethylbenzene	ND		mg/kg	0.0050	0.00014
sec-Butylbenzene	ND		mg/kg	0.0010	0.00012
p-Isopropyltoluene	ND		mg/kg	0.0010	0.00012
1,3-Dichlorobenzene	ND		mg/kg	0.0050	0.00014
1,4-Dichlorobenzene	ND		mg/kg	0.0050	0.00014
n-Butylbenzene	ND		mg/kg	0.0010	0.00011
1,2-Dichlorobenzene	ND		mg/kg	0.0050	0.00015
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0050	0.00040
Hexachlorobutadiene	ND		mg/kg	0.0050	0.00023
1,2,4-Trichlorobenzene	ND		mg/kg	0.0050	0.00018
Naphthalene	ND		mg/kg	0.0050	0.00014
1,2,3-Trichlorobenzene	ND		mg/kg	0.0050	0.00015
tert-Butyl Alcohol	ND		mg/kg	0.10	0.0029
Tertiary-Amyl Methyl Ether	ND		mg/kg	0.0040	0.00009
Isopropyl Ether	ND		mg/kg	0.0040	0.00014

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	80		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	85		70-130



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516838

Report Date: 07/27/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG805354-1 WG805354-2								
Dichlorodifluoromethane	81		75		30-146	8		30
Chloromethane	94		89		52-130	5		30
Vinyl chloride	97		92		67-130	5		30
Bromomethane	103		90		57-147	13		30
Chloroethane	105		99		50-151	6		30
Trichlorofluoromethane	95		87		70-139	9		30
1,1-Dichloroethene	101		98		65-135	3		30
Carbon disulfide	63		58	Q	59-130	8		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	106		97		50-139	9		30
Acrolein	70		67		51-130	4		30
Methylene chloride	93		91		70-130	2		30
Acetone	78		80		54-140	3		30
trans-1,2-Dichloroethene	97		94		70-130	3		30
Methyl Acetate	94		90		51-146	4		30
Methyl tert butyl ether	80		79		66-130	1		30
1,1-Dichloroethane	94		91		70-130	3		30
Acrylonitrile	97		95		70-130	2		30
cis-1,2-Dichloroethene	93		91		70-130	2		30
2,2-Dichloropropane	85		82		70-130	4		30
Cyclohexane	106		102		59-142	4		30
Bromochloromethane	93		91		70-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Lab Number: L1516838

Project Number: 40223-002

Report Date: 07/27/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG805354-1 WG805354-2								
Chloroform	87		85		70-130	2		30
Carbon tetrachloride	86		84		70-130	2		30
1,1,1-Trichloroethane	84		81		70-130	4		30
2-Butanone	85		82		70-130	4		30
1,1-Dichloropropene	88		85		70-130	3		30
Benzene	98		96		70-130	2		30
1,2-Dichloroethane	74		73		70-130	1		30
Methyl cyclohexane	102		98		70-130	4		30
Trichloroethene	94		91		70-130	3		30
1,2-Dichloropropane	93		92		70-130	1		30
Bromodichloromethane	80		80		70-130	0		30
1,4-Dioxane	80		81		65-136	1		30
2-Chloroethylvinyl ether	74		75		70-130	1		30
cis-1,3-Dichloropropene	87		87		70-130	0		30
Toluene	98		96		70-130	2		30
4-Methyl-2-pentanone	73		74		70-130	1		30
Tetrachloroethene	89		86		70-130	3		30
trans-1,3-Dichloropropene	86		85		70-130	1		30
1,1,2-Trichloroethane	95		93		70-130	2		30
Dibromochloromethane	86		86		70-130	0		30
1,3-Dichloropropane	90		89		69-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516838

Report Date: 07/27/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG805354-1 WG805354-2								
1,2-Dibromoethane	89		89		70-130	0		30
2-Hexanone	75		76		70-130	1		30
Chlorobenzene	93		92		70-130	1		30
Ethylbenzene	96		94		70-130	2		30
1,1,1,2-Tetrachloroethane	88		87		70-130	1		30
p/m-Xylene	101		99		70-130	2		30
o-Xylene	97		96		70-130	1		30
Styrene	100		100		70-130	0		30
Bromoform	86		88		70-130	2		30
Isopropylbenzene	95		94		70-130	1		30
Bromobenzene	91		92		70-130	1		30
1,1,2,2-Tetrachloroethane	95		96		70-130	1		30
o-Chlorotoluene	97		97		70-130	0		30
1,3,5-Trimethylbenzene	96		96		70-130	0		30
1,2,3-Trichloropropane	90		90		68-130	0		30
p-Chlorotoluene	94		95		70-130	1		30
tert-Butylbenzene	94		94		70-130	0		30
1,2,4-Trimethylbenzene	95		96		70-130	1		30
sec-Butylbenzene	101		100		70-130	1		30
p-Isopropyltoluene	99		99		70-130	0		30
1,3-Dichlorobenzene	95		95		70-130	0		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516838

Report Date: 07/27/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG805354-1 WG805354-2								
1,4-Dichlorobenzene	92		93		70-130	1		30
n-Butylbenzene	103		101		70-130	2		30
1,2-Dichlorobenzene	91		92		70-130	1		30
1,2-Dibromo-3-chloropropane	76		78		68-130	3		30
Hexachlorobutadiene	92		89		67-130	3		30
1,2,4-Trichlorobenzene	91		91		70-130	0		30
Naphthalene	87		87		70-130	0		30
1,2,3-Trichlorobenzene	90		89		70-130	1		30
tert-Butyl Alcohol	74		72		40-160	3		30
Tertiary-Amyl Methyl Ether	80		80		70-130	0		30
Isopropyl Ether	88		87		70-130	1		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	82		79		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	93		94		70-130
Dibromofluoromethane	94		93		70-130

# **INORGANICS & MISCELLANEOUS**

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516838

Report Date: 07/27/15

## SAMPLE RESULTS

Lab ID: L1516838-01  
 Client ID: DP-057-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 12:22  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.3		%	0.100	NA	1	-	07/13/15 13:05	30,2540G	AB



Project Name: BUZZARD POINT

Lab Number: L1516838

Project Number: 40223-002

Report Date: 07/27/15

**SAMPLE RESULTS**

Lab ID: L1516838-02  
 Client ID: DP-061-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 14:10  
 Date Received: 07/10/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.2		%	0.100	NA	1	-	07/13/15 14:29	30,2540G	AB



## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1516838

Report Date: 07/27/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG802189-1 QC Sample: L1515969-45 Client ID: DUP Sample						
Solids, Total	82.3	82.3	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG805825-1 QC Sample: L1515003-71 Client ID: DUP Sample						
Solids, Total	84.5	84.5	%	0		20



Project Name: BUZZARD POINT

Lab Number: L1516838

Project Number: 40223-002

Report Date: 07/27/15

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

**Cooler Information Custody Seal****Cooler**

C Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1516838-01A	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-8260(14)
L1516838-02A	Vial Large Septa unpreserved (4o	C	N/A	2.8	Y	Absent	PA-8260(14)

\*Values in parentheses indicate holding time in days

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516838  
**Report Date:** 07/27/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516838  
**Report Date:** 07/27/15

#### Data Qualifiers

- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1516838  
**Report Date:** 07/27/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

Last revised December 16, 2014

**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:**

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

L1516838 LT 7/21/15

# CHAIN OF CUSTODY

PAGE 4 OF 6



WESTBORO, MA  
TEL: 508-898-9220  
FAX: 508-898-9193

MANSFIELD, MA  
TEL: 508-822-9300  
FAX: 508-822-3288

**Client Information**

Client: Haley + Aldrich  
Address: 5333 Mission Center Rd  
San Diego CA 92108  
Phone: 619-285-7122  
Fax:

Email: dkernan@haleyaldrich

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

hold 1-4oz jar for VOC

**Project Information**

Project Name:  
Project Location:  
Project #: 40223-022  
Project Manager:  
ALPHA Quote #:

**Turn-Around Time**

Standard  RUSH (only confirmed if pre-approved!)

Date Due: Time:

Date Rec'd in Lab: 7-11-15

**Report Information - Data Deliverables**

FAX  EMAIL  
 ADEX  Add'l Deliverables

ALPHA Job #: 21515969

**Billing Information**

Same as Client info PO #:

**Regulatory Requirements/Report Limits**

State /Fed Program Criteria

**ANALYSIS**

PA-8260, TS

**SAMPLE HANDLING**

Filtration \_\_\_\_\_

Done

Not needed

Lab to do

**Preservation**

Lab to do

(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS		SAMPLE HANDLING	Sample Specific Comments	TOTAL # BOTTLES
		Date	Time			PAH (57 VOC)	PAH (66-69) (90S)			
16838	DP-056-50-100-01	7/10/15	1215	SO	T.N.	X	X			2
	DP-057-50-010-01		1220			X	X			2
	-01 DP-057-50-050-01		1222			X	X	X		2
	DP-057-50-100-01		1225			X	X			2
	DP-057-50-100-02		1225			X	X			1
	DP-058-50-010-01		1255			X	X			2
	DP-058-50-050-01		1300			X	X			2
	DP-058-50-100-01		1305			X	X			2
	DP-059-50-010-01		1320			X	X			2
	DP-059-50-010-02		1320			X	X			2

Container Type			
Preservative			
Relinquished By:	Date/Time	Receiver By:	Date/Time
<i>[Signature]</i>	7/10/15 15:45	AAC	7/10/15 15:45
	7/10/15		7/10/15 2:00
	7/10/15 6:10		7/11/15 6:10
	7/10/15 6:10		7-11-15 10:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolve. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



# CHAIN OF CUSTODY

PAGE 5 OF 6

Date Rec'd in Lab: 7-11-15

ALPHA Job #: LC15969

### Client Information

Client: Haley + Aldrich  
Address: 5333 Mission Center Rd  
San Diego CA 92108  
Phone: 619-285-7122  
Fax:  
Email: kennard@haleyaldrich.com  
 These samples have been previously analyzed by Alpha

### Project Information

Project Name:  
Project Location:  
Project #: 40223-002  
Project Manager:  
ALPHA Quote #:  
Turn-Around Time  
 Standard  RUSH (only confirmed if pre-approved!)  
Date Due: Time:

### Report Information - Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

### Billing Information

Same as Client info PO #:

### Regulatory Requirements/Report Limits

State /Fed Program Criteria

Other Project Specific Requirements/Comments/Detection Limits:  
hold 1-4oz jar for VOC

**ANALYSIS**

FAAL Met-15 (600)  
TPH GC-44 (804)  
PAH (2706)

PA-8260, TS

**SAMPLE HANDLING**

Filtration \_\_\_\_\_  
 Done  
 Not needed  
 Lab to do  
Preservation  
 Lab to do  
(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS		Sample Specific Comments	TOTAL # BOTTLES
		Date	Time			FAAL Met-15 (600)	TPH GC-44 (804)		
16838	41 DP-059-50-050-01	7/10/15	1325	SO	T.W.	X	X		2
	42 DP-059-50-100-01		1330			X	X		2
	43 DP-060-50-010-01		1335			X	X		2
	44 DP-060-50-050-01		1340			X	X		2
	45 DP-060-50-100-01		1345			X	X		2
	46 DP-061-50-010-01		1405			X	X		2
-02	DP-061-50-050-01		1410			X	X	X	2
	48 DP-061-50-050-02		1410			X	X		1
	49 DP-061-50-100-01		1415			X	X		2
	50 DP-062-50-010-01		1425			X	X		2

Relinquished By:	Date/Time	Received By:	Date/Time
<u>Cheryl</u>	<u>7/10/15 13:45</u>	<u>AAC J...</u>	<u>7/10/15 15:15</u>
<u>[Signature]</u>	<u>7/10/15 21:00</u>	<u>[Signature]</u>	<u>7/10/15 21:00</u>
<u>[Signature]</u>	<u>7/10/15 6:08</u>	<u>[Signature]</u>	<u>7/10/15 6:10</u>
<u>[Signature]</u>	<u>7/11/15 10:10</u>	<u>[Signature]</u>	<u>7-11-15 10:10</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



## ANALYTICAL REPORT

Lab Number:	L1517271
Client:	Haley & Aldrich, Inc. 5333 Mission Center Rd San Diego, CA 92108
ATTN:	Dana Kennard
Phone:	(619) 285-7108
Project Name:	BUZZARD POINT
Project Number:	40223-002
Report Date:	07/28/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)





**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517271  
**Report Date:** 07/28/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1517271-01	DP-050-SO-050-01	SOIL	Not Specified	07/10/15 08:15	07/28/15
L1517271-02	DP-052-SO-050-01	SOIL	Not Specified	07/10/15 09:40	07/28/15

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517271  
**Report Date:** 07/28/15

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

---

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517271  
**Report Date:** 07/28/15

**Case Narrative (continued)**

Report Submission

The project information was provided by the client.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 07/28/15

# ORGANICS

# SEMIVOLATILES

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517271  
**Report Date:** 07/28/15

**SAMPLE RESULTS**

Lab ID: L1517271-01  
 Client ID: DP-050-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/28/15 02:56  
 Analyst: PS  
 Percent Solids: 88%

Date Collected: 07/10/15 08:15  
 Date Received: 07/28/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/24/15 13:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.061	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.059	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.060	1
Acenaphthylene	ND		mg/kg	0.15	0.034	1
Acenaphthene	ND		mg/kg	0.15	0.038	1
Fluorene	ND		mg/kg	0.18	0.053	1
Phenanthrene	0.086	J	mg/kg	0.11	0.036	1
Anthracene	ND		mg/kg	0.11	0.031	1
Fluoranthene	ND		mg/kg	0.11	0.034	1
Pyrene	0.037	J	mg/kg	0.11	0.036	1
Benzo(a)anthracene	ND		mg/kg	0.11	0.036	1
Chrysene	ND		mg/kg	0.11	0.036	1
Benzo(b)fluoranthene	ND		mg/kg	0.11	0.037	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.035	1
Benzo(a)pyrene	ND		mg/kg	0.15	0.045	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.041	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.036	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	85		30-120
4-Terphenyl-d14	79		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517271  
**Report Date:** 07/28/15

**SAMPLE RESULTS**

Lab ID: L1517271-02  
 Client ID: DP-052-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/28/15 03:22  
 Analyst: PS  
 Percent Solids: 91%

Date Collected: 07/10/15 09:40  
 Date Received: 07/28/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/24/15 13:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.059	1
2-Methylnaphthalene	ND		mg/kg	0.21	0.057	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.058	1
Acenaphthylene	ND		mg/kg	0.14	0.033	1
Acenaphthene	ND		mg/kg	0.14	0.037	1
Fluorene	ND		mg/kg	0.18	0.051	1
Phenanthrene	0.052	J	mg/kg	0.11	0.035	1
Anthracene	ND		mg/kg	0.11	0.030	1
Fluoranthene	0.11		mg/kg	0.11	0.033	1
Pyrene	0.11		mg/kg	0.11	0.035	1
Benzo(a)anthracene	0.068	J	mg/kg	0.11	0.035	1
Chrysene	0.075	J	mg/kg	0.11	0.035	1
Benzo(b)fluoranthene	0.087	J	mg/kg	0.11	0.036	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.034	1
Benzo(a)pyrene	0.065	J	mg/kg	0.14	0.044	1
Indeno(1,2,3-cd)pyrene	0.043	J	mg/kg	0.14	0.040	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.035	1
Benzo(ghi)perylene	0.041	J	mg/kg	0.14	0.037	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	78		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517271  
**Report Date:** 07/28/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/27/15 21:39  
**Analyst:** PS

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/24/15 13:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG805781-1					
Naphthalene	ND		mg/kg	0.16	0.055
2-Methylnaphthalene	ND		mg/kg	0.20	0.053
2-Chloronaphthalene	ND		mg/kg	0.16	0.054
Acenaphthylene	ND		mg/kg	0.13	0.031
Acenaphthene	ND		mg/kg	0.13	0.034
Fluorene	ND		mg/kg	0.16	0.047
Phenanthrene	ND		mg/kg	0.099	0.032
Anthracene	ND		mg/kg	0.099	0.027
Fluoranthene	ND		mg/kg	0.099	0.030
Pyrene	ND		mg/kg	0.099	0.032
Benzo(a)anthracene	ND		mg/kg	0.099	0.032
Chrysene	ND		mg/kg	0.099	0.032
Benzo(b)fluoranthene	ND		mg/kg	0.099	0.033
Benzo(k)fluoranthene	ND		mg/kg	0.099	0.031
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.13	0.036
Dibenzo(a,h)anthracene	ND		mg/kg	0.099	0.032
Benzo(ghi)perylene	ND		mg/kg	0.13	0.034

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	76		30-120
4-Terphenyl-d14	90		18-120



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517271

Report Date: 07/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG805781-2 WG805781-3								
Naphthalene	56		69		40-140	21		50
2-Methylnaphthalene	56		72		40-140	25		50
2-Chloronaphthalene	57		73		40-140	25		50
Acenaphthylene	59		76		40-140	25		50
Acenaphthene	54		68		31-137	23		50
Fluorene	56		73		40-140	26		50
Phenanthrene	54		71		40-140	27		50
Anthracene	58		76		40-140	27		50
Fluoranthene	56		72		40-140	25		50
Pyrene	55		72		35-142	27		50
Benzo(a)anthracene	54		70		40-140	26		50
Chrysene	55		70		40-140	24		50
Benzo(b)fluoranthene	53		68		40-140	25		50
Benzo(k)fluoranthene	54		70		40-140	26		50
Benzo(a)pyrene	54		71		40-140	27		50
Indeno(1,2,3-cd)pyrene	53		70		40-140	28		50
Dibenzo(a,h)anthracene	53		68		40-140	25		50
Benzo(ghi)perylene	53		69		40-140	26		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517271

Report Date: 07/28/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG805781-2 WG805781-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Nitrobenzene-d5	60		71		23-120
2-Fluorobiphenyl	62		78		30-120
4-Terphenyl-d14	59		76		18-120

# **INORGANICS & MISCELLANEOUS**

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517271

Report Date: 07/28/15

**SAMPLE RESULTS**

Lab ID: L1517271-01  
 Client ID: DP-050-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 08:15  
 Date Received: 07/28/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517271

Report Date: 07/28/15

**SAMPLE RESULTS**

Lab ID: L1517271-02  
 Client ID: DP-052-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/10/15 09:40  
 Date Received: 07/28/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.5		%	0.100	NA	1	-	07/13/15 11:53	30,2540G	AB



## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517271

Report Date: 07/28/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG802123-1 QC Sample: L1515969-04 Client ID: DUP Sample						
Solids, Total	87.8	87.7	%	0		20

Project Name: BUZZARD POINT

Lab Number: L1517271

Project Number: 40223-002

Report Date: 07/28/15

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1517271-01A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	PA-8270(14)
L1517271-02A	Glass 250ml/8oz unpreserved	A	N/A	3.7	Y	Absent	PA-8270(14)

\*Values in parentheses indicate holding time in days

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517271  
**Report Date:** 07/28/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers





**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517271  
**Report Date:** 07/28/15

#### Data Qualifiers

- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517271  
**Report Date:** 07/28/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

Last revised December 16, 2014

---

### The following analytes are not included in our NELAP Scope of Accreditation:

#### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

#### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

---

### The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

#### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

#### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

---

For a complete listing of analytes and methods, please contact your Alpha Project Manager.







## ANALYTICAL REPORT

Lab Number:	L1517276
Client:	Haley & Aldrich, Inc. 5333 Mission Center Rd San Diego, CA 92108
ATTN:	Dana Kennard
Phone:	(619) 285-7108
Project Name:	BUZZARD POINT
Project Number:	40223-002
Report Date:	07/28/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517276  
**Report Date:** 07/28/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1517276-01	DP-065-SO-010-01	SOIL	Not Specified	07/13/15 08:20	07/13/15

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517276  
**Report Date:** 07/28/15

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

---



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517276  
**Report Date:** 07/28/15

### Case Narrative (continued)

#### Report Submission

The project information was provided by the client.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Cristin Walker

Title: Technical Director/Representative

Date: 07/28/15

# ORGANICS

# SEMIVOLATILES

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517276  
**Report Date:** 07/28/15

**SAMPLE RESULTS**

Lab ID: L1517276-01  
 Client ID: DP-065-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 07/28/15 03:48  
 Analyst: PS  
 Percent Solids: 88%

Date Collected: 07/13/15 08:20  
 Date Received: 07/13/15  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 07/24/15 13:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Naphthalene	ND		mg/kg	0.18	0.061	1
2-Methylnaphthalene	ND		mg/kg	0.22	0.059	1
2-Chloronaphthalene	ND		mg/kg	0.18	0.060	1
Acenaphthylene	ND		mg/kg	0.15	0.034	1
Acenaphthene	ND		mg/kg	0.15	0.038	1
Fluorene	ND		mg/kg	0.18	0.053	1
Phenanthrene	0.053	J	mg/kg	0.11	0.036	1
Anthracene	ND		mg/kg	0.11	0.031	1
Fluoranthene	0.12		mg/kg	0.11	0.034	1
Pyrene	0.10	J	mg/kg	0.11	0.036	1
Benzo(a)anthracene	0.068	J	mg/kg	0.11	0.036	1
Chrysene	0.069	J	mg/kg	0.11	0.036	1
Benzo(b)fluoranthene	0.078	J	mg/kg	0.11	0.037	1
Benzo(k)fluoranthene	ND		mg/kg	0.11	0.035	1
Benzo(a)pyrene	0.060	J	mg/kg	0.15	0.045	1
Indeno(1,2,3-cd)pyrene	ND		mg/kg	0.15	0.041	1
Dibenzo(a,h)anthracene	ND		mg/kg	0.11	0.036	1
Benzo(ghi)perylene	ND		mg/kg	0.15	0.038	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	80		30-120
4-Terphenyl-d14	59		18-120

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517276  
**Report Date:** 07/28/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 07/27/15 21:39  
**Analyst:** PS

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/24/15 13:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG805781-1					
Naphthalene	ND		mg/kg	0.16	0.055
2-Methylnaphthalene	ND		mg/kg	0.20	0.053
2-Chloronaphthalene	ND		mg/kg	0.16	0.054
Acenaphthylene	ND		mg/kg	0.13	0.031
Acenaphthene	ND		mg/kg	0.13	0.034
Fluorene	ND		mg/kg	0.16	0.047
Phenanthrene	ND		mg/kg	0.099	0.032
Anthracene	ND		mg/kg	0.099	0.027
Fluoranthene	ND		mg/kg	0.099	0.030
Pyrene	ND		mg/kg	0.099	0.032
Benzo(a)anthracene	ND		mg/kg	0.099	0.032
Chrysene	ND		mg/kg	0.099	0.032
Benzo(b)fluoranthene	ND		mg/kg	0.099	0.033
Benzo(k)fluoranthene	ND		mg/kg	0.099	0.031
Benzo(a)pyrene	ND		mg/kg	0.13	0.040
Indeno(1,2,3-cd)Pyrene	ND		mg/kg	0.13	0.036
Dibenzo(a,h)anthracene	ND		mg/kg	0.099	0.032
Benzo(ghi)perylene	ND		mg/kg	0.13	0.034

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	76		30-120
4-Terphenyl-d14	90		18-120

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517276

Report Date: 07/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG805781-2 WG805781-3								
Naphthalene	56		69		40-140	21		50
2-Methylnaphthalene	56		72		40-140	25		50
2-Chloronaphthalene	57		73		40-140	25		50
Acenaphthylene	59		76		40-140	25		50
Acenaphthene	54		68		31-137	23		50
Fluorene	56		73		40-140	26		50
Phenanthrene	54		71		40-140	27		50
Anthracene	58		76		40-140	27		50
Fluoranthene	56		72		40-140	25		50
Pyrene	55		72		35-142	27		50
Benzo(a)anthracene	54		70		40-140	26		50
Chrysene	55		70		40-140	24		50
Benzo(b)fluoranthene	53		68		40-140	25		50
Benzo(k)fluoranthene	54		70		40-140	26		50
Benzo(a)pyrene	54		71		40-140	27		50
Indeno(1,2,3-cd)pyrene	53		70		40-140	28		50
Dibenzo(a,h)anthracene	53		68		40-140	25		50
Benzo(ghi)perylene	53		69		40-140	26		50

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517276  
**Report Date:** 07/28/15

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG805781-2 WG805781-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
Nitrobenzene-d5	60		71		23-120
2-Fluorobiphenyl	62		78		30-120
4-Terphenyl-d14	59		76		18-120

# **INORGANICS & MISCELLANEOUS**



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517276

Report Date: 07/28/15

## SAMPLE RESULTS

Lab ID: L1517276-01  
 Client ID: DP-065-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/13/15 08:20  
 Date Received: 07/13/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	07/14/15 20:29	30,2540G	RT



## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517276

Report Date: 07/28/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG802659-1 QC Sample: L1516001-01 Client ID: DUP Sample						
Solids, Total	88.2	87.5	%	1		20

Project Name: BUZZARD POINT

Lab Number: L1517276

Project Number: 40223-002

Report Date: 07/28/15

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1517276-01A	Glass 250ml/8oz unpreserved	A	N/A	4.5	Y	Absent	PA-8270(14)

\*Values in parentheses indicate holding time in days

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517276  
**Report Date:** 07/28/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517276  
**Report Date:** 07/28/15

#### Data Qualifiers

- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517276  
**Report Date:** 07/28/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

Last revised December 16, 2014

---

**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

---

**The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:**

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

---

For a complete listing of analytes and methods, please contact your Alpha Project Manager.







## ANALYTICAL REPORT

Lab Number:	L1517281
Client:	Haley & Aldrich, Inc. 5333 Mission Center Rd San Diego, CA 92108
ATTN:	Dana Kennard
Phone:	(619) 285-7108
Project Name:	BUZZARD POINT
Project Number:	40223-002
Report Date:	07/28/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517281  
**Report Date:** 07/28/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1517281-01	DP-092-SO-010-01	SOIL	Not Specified	07/15/15 12:35	07/15/15
L1517281-02	DP-092-SO-050-01	SOIL	Not Specified	07/15/15 12:40	07/15/15
L1517281-03	DP-092-SO-100-01	SOIL	Not Specified	07/15/15 12:45	07/15/15

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517281  
**Report Date:** 07/28/15

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

---

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517281  
**Report Date:** 07/28/15

### Case Narrative (continued)

#### Report Submission

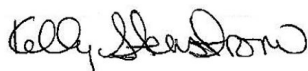
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Volatile Organics

L1517281-01, -02, and -03: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 07/28/15

# ORGANICS

# VOLATILES

Project Name: BUZZARD POINT

Lab Number: L1517281

Project Number: 40223-002

Report Date: 07/28/15

## SAMPLE RESULTS

Lab ID: L1517281-01 D  
 Client ID: DP-092-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/27/15 17:23  
 Analyst: BN  
 Percent Solids: 84%

Date Collected: 07/15/15 12:35  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Dichlorodifluoromethane	ND		mg/kg	6.0	0.11	500
Chloromethane	ND		mg/kg	3.0	0.18	500
Vinyl chloride	ND		mg/kg	1.2	0.070	500
Bromomethane	ND		mg/kg	1.2	0.20	500
Chloroethane	ND		mg/kg	1.2	0.19	500
Trichlorofluoromethane	ND		mg/kg	3.0	0.23	500
1,1-Dichloroethene	ND		mg/kg	0.60	0.16	500
Carbon disulfide	ND		mg/kg	6.0	0.66	500
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	12	0.16	500
Methylene chloride	ND		mg/kg	3.0	0.66	500
Acetone	ND		mg/kg	21	0.62	500
trans-1,2-Dichloroethene	ND		mg/kg	0.89	0.13	500
Methyl Acetate	ND		mg/kg	2.4	0.16	500
Methyl tert butyl ether	ND		mg/kg	1.2	0.050	500
1,1-Dichloroethane	ND		mg/kg	0.89	0.051	500
cis-1,2-Dichloroethene	ND		mg/kg	0.60	0.085	500
1,2-Dichloroethene, Total	ND		mg/kg	0.60	0.085	500
Cyclohexane	ND		mg/kg	12	0.087	500
Bromochloromethane	ND		mg/kg	3.0	0.16	500
Chloroform	ND		mg/kg	0.89	0.22	500
Carbon tetrachloride	ND		mg/kg	0.60	0.12	500
1,1,1-Trichloroethane	ND		mg/kg	0.60	0.066	500
2-Butanone	ND		mg/kg	6.0	0.16	500
Benzene	ND		mg/kg	0.60	0.070	500
1,2-Dichloroethane	ND		mg/kg	0.60	0.068	500
Methyl cyclohexane	1.1	J	mg/kg	2.4	0.092	500
Trichloroethene	ND		mg/kg	0.60	0.074	500
1,2-Dichloropropane	ND		mg/kg	2.1	0.14	500
Bromodichloromethane	ND		mg/kg	0.60	0.10	500
1,4-Dioxane	ND		mg/kg	60	8.6	500

Project Name: BUZZARD POINT

Lab Number: L1517281

Project Number: 40223-002

Report Date: 07/28/15

## SAMPLE RESULTS

Lab ID: L1517281-01 D

Date Collected: 07/15/15 12:35

Client ID: DP-092-SO-010-01

Date Received: 07/15/15

Sample Location: Not Specified

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,3-Dichloropropene	ND		mg/kg	0.60	0.070	500
Toluene	0.14	J	mg/kg	0.89	0.12	500
4-Methyl-2-pentanone	ND		mg/kg	6.0	0.14	500
Tetrachloroethene	ND		mg/kg	0.60	0.083	500
trans-1,3-Dichloropropene	ND		mg/kg	0.60	0.072	500
1,3-Dichloropropene, Total	ND		mg/kg	0.60	0.070	500
1,1,2-Trichloroethane	ND		mg/kg	0.89	0.18	500
Dibromochloromethane	ND		mg/kg	0.60	0.091	500
1,2-Dibromoethane	ND		mg/kg	2.4	0.10	500
2-Hexanone	ND		mg/kg	6.0	0.40	500
Chlorobenzene	ND		mg/kg	0.60	0.21	500
Ethylbenzene	0.60		mg/kg	0.60	0.076	500
p/m-Xylene	2.2		mg/kg	1.2	0.12	500
o-Xylene	1.1	J	mg/kg	1.2	0.10	500
Xylenes, Total	3.3	J	mg/kg	1.2	0.10	500
Styrene	ND		mg/kg	1.2	0.24	500
Bromoform	ND		mg/kg	2.4	0.14	500
Isopropylbenzene	0.40	J	mg/kg	0.60	0.062	500
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.60	0.060	500
1,3-Dichlorobenzene	ND		mg/kg	3.0	0.080	500
1,4-Dichlorobenzene	ND		mg/kg	3.0	0.082	500
1,2-Dichlorobenzene	ND		mg/kg	3.0	0.091	500
1,2-Dibromo-3-chloropropane	ND		mg/kg	3.0	0.24	500
1,2,4-Trichlorobenzene	ND		mg/kg	3.0	0.11	500
1,2,3-Trichlorobenzene	ND		mg/kg	3.0	0.088	500

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	106		70-130



Project Name: BUZZARD POINT

Lab Number: L1517281

Project Number: 40223-002

Report Date: 07/28/15

## SAMPLE RESULTS

Lab ID: L1517281-02 D  
 Client ID: DP-092-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/27/15 17:50  
 Analyst: BN  
 Percent Solids: 83%

Date Collected: 07/15/15 12:40  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Dichlorodifluoromethane	ND		mg/kg	1.2	0.023	100
Chloromethane	ND		mg/kg	0.60	0.035	100
Vinyl chloride	ND		mg/kg	0.24	0.014	100
Bromomethane	ND		mg/kg	0.24	0.040	100
Chloroethane	ND		mg/kg	0.24	0.038	100
Trichlorofluoromethane	ND		mg/kg	0.60	0.046	100
1,1-Dichloroethene	ND		mg/kg	0.12	0.031	100
Carbon disulfide	ND		mg/kg	1.2	0.13	100
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	2.4	0.033	100
Methylene chloride	ND		mg/kg	0.60	0.13	100
Acetone	ND		mg/kg	4.3	0.12	100
trans-1,2-Dichloroethene	ND		mg/kg	0.18	0.025	100
Methyl Acetate	ND		mg/kg	0.48	0.032	100
Methyl tert butyl ether	ND		mg/kg	0.24	0.010	100
1,1-Dichloroethane	ND		mg/kg	0.18	0.010	100
cis-1,2-Dichloroethene	ND		mg/kg	0.12	0.017	100
1,2-Dichloroethene, Total	ND		mg/kg	0.12	0.017	100
Cyclohexane	ND		mg/kg	2.4	0.018	100
Bromochloromethane	ND		mg/kg	0.60	0.033	100
Chloroform	ND		mg/kg	0.18	0.044	100
Carbon tetrachloride	ND		mg/kg	0.12	0.025	100
1,1,1-Trichloroethane	ND		mg/kg	0.12	0.013	100
2-Butanone	ND		mg/kg	1.2	0.033	100
Benzene	ND		mg/kg	0.12	0.014	100
1,2-Dichloroethane	ND		mg/kg	0.12	0.014	100
Methyl cyclohexane	0.28	J	mg/kg	0.48	0.018	100
Trichloroethene	ND		mg/kg	0.12	0.015	100
1,2-Dichloropropane	ND		mg/kg	0.42	0.027	100
Bromodichloromethane	ND		mg/kg	0.12	0.021	100
1,4-Dioxane	ND		mg/kg	12	1.7	100

Project Name: BUZZARD POINT

Lab Number: L1517281

Project Number: 40223-002

Report Date: 07/28/15

## SAMPLE RESULTS

Lab ID: L1517281-02 D

Date Collected: 07/15/15 12:40

Client ID: DP-092-SO-050-01

Date Received: 07/15/15

Sample Location: Not Specified

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,3-Dichloropropene	ND		mg/kg	0.12	0.014	100
Toluene	0.034	J	mg/kg	0.18	0.023	100
4-Methyl-2-pentanone	ND		mg/kg	1.2	0.029	100
Tetrachloroethene	ND		mg/kg	0.12	0.017	100
trans-1,3-Dichloropropene	ND		mg/kg	0.12	0.014	100
1,3-Dichloropropene, Total	ND		mg/kg	0.12	0.014	100
1,1,2-Trichloroethane	ND		mg/kg	0.18	0.036	100
Dibromochloromethane	ND		mg/kg	0.12	0.018	100
1,2-Dibromoethane	ND		mg/kg	0.48	0.021	100
2-Hexanone	ND		mg/kg	1.2	0.080	100
Chlorobenzene	ND		mg/kg	0.12	0.042	100
Ethylbenzene	0.16		mg/kg	0.12	0.015	100
p/m-Xylene	0.61		mg/kg	0.24	0.024	100
o-Xylene	0.30		mg/kg	0.24	0.021	100
Xylenes, Total	0.91		mg/kg	0.24	0.021	100
Styrene	ND		mg/kg	0.24	0.048	100
Bromoform	ND		mg/kg	0.48	0.028	100
Isopropylbenzene	0.12		mg/kg	0.12	0.012	100
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.12	0.012	100
1,3-Dichlorobenzene	ND		mg/kg	0.60	0.016	100
1,4-Dichlorobenzene	ND		mg/kg	0.60	0.017	100
1,2-Dichlorobenzene	ND		mg/kg	0.60	0.018	100
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.60	0.048	100
1,2,4-Trichlorobenzene	ND		mg/kg	0.60	0.022	100
1,2,3-Trichlorobenzene	ND		mg/kg	0.60	0.018	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	101		70-130

Project Name: BUZZARD POINT

Lab Number: L1517281

Project Number: 40223-002

Report Date: 07/28/15

## SAMPLE RESULTS

Lab ID: L1517281-03 D  
 Client ID: DP-092-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 07/27/15 18:16  
 Analyst: BN  
 Percent Solids: 85%

Date Collected: 07/15/15 12:45  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Volatile Organics by GC/MS - Westborough Lab

Dichlorodifluoromethane	ND		mg/kg	15	0.28	1250
Chloromethane	ND		mg/kg	7.3	0.43	1250
Vinyl chloride	ND		mg/kg	2.9	0.17	1250
Bromomethane	ND		mg/kg	2.9	0.50	1250
Chloroethane	ND		mg/kg	2.9	0.46	1250
Trichlorofluoromethane	ND		mg/kg	7.3	0.57	1250
1,1-Dichloroethene	ND		mg/kg	1.5	0.38	1250
Carbon disulfide	ND		mg/kg	15	1.6	1250
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	29	0.40	1250
Methylene chloride	ND		mg/kg	7.3	1.6	1250
Acetone	ND		mg/kg	53	1.5	1250
trans-1,2-Dichloroethene	ND		mg/kg	2.2	0.31	1250
Methyl Acetate	ND		mg/kg	5.9	0.40	1250
Methyl tert butyl ether	ND		mg/kg	2.9	0.12	1250
1,1-Dichloroethane	ND		mg/kg	2.2	0.12	1250
cis-1,2-Dichloroethene	ND		mg/kg	1.5	0.21	1250
1,2-Dichloroethene, Total	ND		mg/kg	1.5	0.21	1250
Cyclohexane	ND		mg/kg	29	0.21	1250
Bromochloromethane	ND		mg/kg	7.3	0.40	1250
Chloroform	ND		mg/kg	2.2	0.54	1250
Carbon tetrachloride	ND		mg/kg	1.5	0.31	1250
1,1,1-Trichloroethane	ND		mg/kg	1.5	0.16	1250
2-Butanone	ND		mg/kg	15	0.40	1250
Benzene	ND		mg/kg	1.5	0.17	1250
1,2-Dichloroethane	ND		mg/kg	1.5	0.17	1250
Methyl cyclohexane	2.2	J	mg/kg	5.9	0.23	1250
Trichloroethene	ND		mg/kg	1.5	0.18	1250
1,2-Dichloropropane	ND		mg/kg	5.1	0.33	1250
Bromodichloromethane	ND		mg/kg	1.5	0.25	1250
1,4-Dioxane	ND		mg/kg	150	21.	1250

Project Name: BUZZARD POINT

Lab Number: L1517281

Project Number: 40223-002

Report Date: 07/28/15

## SAMPLE RESULTS

Lab ID: L1517281-03 D

Date Collected: 07/15/15 12:45

Client ID: DP-092-SO-100-01

Date Received: 07/15/15

Sample Location: Not Specified

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,3-Dichloropropene	ND		mg/kg	1.5	0.17	1250
Toluene	ND		mg/kg	2.2	0.28	1250
4-Methyl-2-pentanone	ND		mg/kg	15	0.36	1250
Tetrachloroethene	ND		mg/kg	1.5	0.20	1250
trans-1,3-Dichloropropene	ND		mg/kg	1.5	0.18	1250
1,3-Dichloropropene, Total	ND		mg/kg	1.5	0.17	1250
1,1,2-Trichloroethane	ND		mg/kg	2.2	0.44	1250
Dibromochloromethane	ND		mg/kg	1.5	0.22	1250
1,2-Dibromoethane	ND		mg/kg	5.9	0.26	1250
2-Hexanone	ND		mg/kg	15	0.98	1250
Chlorobenzene	ND		mg/kg	1.5	0.51	1250
Ethylbenzene	1.0	J	mg/kg	1.5	0.19	1250
p/m-Xylene	3.5		mg/kg	2.9	0.29	1250
o-Xylene	1.6	J	mg/kg	2.9	0.25	1250
Xylenes, Total	5.1	J	mg/kg	2.9	0.25	1250
Styrene	ND		mg/kg	2.9	0.59	1250
Bromoform	ND		mg/kg	5.9	0.34	1250
Isopropylbenzene	0.71	J	mg/kg	1.5	0.15	1250
1,1,2,2-Tetrachloroethane	ND		mg/kg	1.5	0.15	1250
1,3-Dichlorobenzene	ND		mg/kg	7.3	0.20	1250
1,4-Dichlorobenzene	ND		mg/kg	7.3	0.20	1250
1,2-Dichlorobenzene	ND		mg/kg	7.3	0.22	1250
1,2-Dibromo-3-chloropropane	ND		mg/kg	7.3	0.58	1250
1,2,4-Trichlorobenzene	ND		mg/kg	7.3	0.27	1250
1,2,3-Trichlorobenzene	ND		mg/kg	7.3	0.22	1250

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517281  
**Report Date:** 07/28/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/27/15 09:23  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG806525-3					
Dichlorodifluoromethane	ND		mg/kg	0.010	0.00019
Chloromethane	ND		mg/kg	0.0050	0.00029
Vinyl chloride	ND		mg/kg	0.0020	0.00012
Bromomethane	ND		mg/kg	0.0020	0.00034
Chloroethane	ND		mg/kg	0.0020	0.00032
Trichlorofluoromethane	ND		mg/kg	0.0050	0.00039
1,1-Dichloroethene	ND		mg/kg	0.0010	0.00026
Carbon disulfide	ND		mg/kg	0.010	0.0011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/kg	0.020	0.00027
Acrolein	ND		mg/kg	0.025	0.0081
Methylene chloride	ND		mg/kg	0.0050	0.0011
Acetone	ND		mg/kg	0.036	0.0010
trans-1,2-Dichloroethene	ND		mg/kg	0.0015	0.00021
Methyl Acetate	ND		mg/kg	0.0040	0.00027
Methyl tert butyl ether	ND		mg/kg	0.0020	0.00008
1,1-Dichloroethane	ND		mg/kg	0.0015	0.00008
Acrylonitrile	ND		mg/kg	0.0040	0.00051
cis-1,2-Dichloroethene	ND		mg/kg	0.0010	0.00014
1,2-Dichloroethene (total)	ND		mg/kg	0.0010	0.00014
2,2-Dichloropropane	ND		mg/kg	0.0050	0.00023
Cyclohexane	ND		mg/kg	0.020	0.00015
Bromochloromethane	ND		mg/kg	0.0050	0.00028
Chloroform	ND		mg/kg	0.0015	0.00037
Carbon tetrachloride	ND		mg/kg	0.0010	0.00021
1,1,1-Trichloroethane	ND		mg/kg	0.0010	0.00011
2-Butanone	ND		mg/kg	0.010	0.00027
1,1-Dichloropropene	ND		mg/kg	0.0050	0.00014
Benzene	ND		mg/kg	0.0010	0.00012
1,2-Dichloroethane	ND		mg/kg	0.0010	0.00011

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517281  
**Report Date:** 07/28/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 07/27/15 09:23  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG806525-3					
Methyl cyclohexane	ND		mg/kg	0.0040	0.00015
Trichloroethene	ND		mg/kg	0.0010	0.00012
1,2-Dichloropropane	ND		mg/kg	0.0035	0.00023
Bromodichloromethane	ND		mg/kg	0.0010	0.00017
1,4-Dioxane	ND		mg/kg	0.10	0.014
2-Chloroethylvinyl ether	ND		mg/kg	0.020	0.00062
cis-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00012
Toluene	ND		mg/kg	0.0015	0.00019
4-Methyl-2-pentanone	ND		mg/kg	0.010	0.00024
Tetrachloroethene	ND		mg/kg	0.0010	0.00014
trans-1,3-Dichloropropene	ND		mg/kg	0.0010	0.00012
1,3-Dichloropropene, Total	ND		mg/kg	0.0010	0.00012
1,1,2-Trichloroethane	ND		mg/kg	0.0015	0.00030
Dibromochloromethane	ND		mg/kg	0.0010	0.00015
1,3-Dichloropropane	ND		mg/kg	0.0050	0.00014
1,2-Dibromoethane	ND		mg/kg	0.0040	0.00017
2-Hexanone	ND		mg/kg	0.010	0.00067
Chlorobenzene	ND		mg/kg	0.0010	0.00035
Ethylbenzene	ND		mg/kg	0.0010	0.00013
1,1,1,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00032
p/m-Xylene	ND		mg/kg	0.0020	0.00020
o-Xylene	ND		mg/kg	0.0020	0.00017
Xylene (Total)	ND		mg/kg	0.0020	0.00017
Styrene	ND		mg/kg	0.0020	0.00040
Bromoform	ND		mg/kg	0.0040	0.00024
Isopropylbenzene	ND		mg/kg	0.0010	0.00010
Bromobenzene	ND		mg/kg	0.0050	0.00021
1,1,2,2-Tetrachloroethane	ND		mg/kg	0.0010	0.00010
o-Chlorotoluene	ND		mg/kg	0.0050	0.00016

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517281  
**Report Date:** 07/28/15

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8260C  
**Analytical Date:** 07/27/15 09:23  
**Analyst:** BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG806525-3					
1,3,5-Trimethylbenzene	ND		mg/kg	0.0050	0.00014
1,2,3-Trichloropropane	ND		mg/kg	0.010	0.00016
p-Chlorotoluene	ND		mg/kg	0.0050	0.00013
tert-Butylbenzene	ND		mg/kg	0.0050	0.00014
1,2,4-Trimethylbenzene	ND		mg/kg	0.0050	0.00014
sec-Butylbenzene	ND		mg/kg	0.0010	0.00012
p-Isopropyltoluene	ND		mg/kg	0.0010	0.00012
1,3-Dichlorobenzene	ND		mg/kg	0.0050	0.00014
1,4-Dichlorobenzene	ND		mg/kg	0.0050	0.00014
n-Butylbenzene	ND		mg/kg	0.0010	0.00011
1,2-Dichlorobenzene	ND		mg/kg	0.0050	0.00015
1,2-Dibromo-3-chloropropane	ND		mg/kg	0.0050	0.00040
Hexachlorobutadiene	ND		mg/kg	0.0050	0.00023
1,2,4-Trichlorobenzene	ND		mg/kg	0.0050	0.00018
Naphthalene	ND		mg/kg	0.0050	0.00014
1,2,3-Trichlorobenzene	ND		mg/kg	0.0050	0.00015
tert-Butyl Alcohol	ND		mg/kg	0.10	0.0029
Tertiary-Amyl Methyl Ether	ND		mg/kg	0.0040	0.00009
Isopropyl Ether	ND		mg/kg	0.0040	0.00014

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517281

Report Date: 07/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG806525-1 WG806525-2								
Dichlorodifluoromethane	132		138		30-146	4		30
Chloromethane	102		107		52-130	5		30
Vinyl chloride	98		102		67-130	4		30
Bromomethane	138		141		57-147	2		30
Chloroethane	136		144		50-151	6		30
Trichlorofluoromethane	<b>168</b>	Q	<b>177</b>	Q	70-139	5		30
1,1-Dichloroethene	120		127		65-135	6		30
Carbon disulfide	95		100		59-130	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	121		128		50-139	6		30
Acrolein	83		77		51-130	8		30
Methylene chloride	106		112		70-130	6		30
Acetone	93		110		54-140	17		30
trans-1,2-Dichloroethene	116		120		70-130	3		30
Methyl Acetate	94		99		51-146	5		30
Methyl tert butyl ether	102		111		66-130	8		30
1,1-Dichloroethane	117		122		70-130	4		30
Acrylonitrile	79		86		70-130	8		30
cis-1,2-Dichloroethene	109		115		70-130	5		30
2,2-Dichloropropane	<b>139</b>	Q	<b>147</b>	Q	70-130	6		30
Cyclohexane	100		103		59-142	3		30
Bromochloromethane	109		114		70-130	4		30



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517281

Report Date: 07/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG806525-1 WG806525-2								
Chloroform	123		129		70-130	5		30
Carbon tetrachloride	142	Q	150	Q	70-130	5		30
1,1,1-Trichloroethane	132	Q	141	Q	70-130	7		30
2-Butanone	85		96		70-130	12		30
1,1-Dichloropropene	116		123		70-130	6		30
Benzene	112		119		70-130	6		30
1,2-Dichloroethane	121		128		70-130	6		30
Methyl cyclohexane	100		106		70-130	6		30
Trichloroethene	114		119		70-130	4		30
1,2-Dichloropropane	105		114		70-130	8		30
Bromodichloromethane	116		122		70-130	5		30
1,4-Dioxane	78		83		65-136	6		30
2-Chloroethylvinyl ether	118		125		70-130	6		30
cis-1,3-Dichloropropene	111		118		70-130	6		30
Toluene	99		103		70-130	4		30
4-Methyl-2-pentanone	82		87		70-130	6		30
Tetrachloroethene	110		114		70-130	4		30
trans-1,3-Dichloropropene	106		113		70-130	6		30
1,1,2-Trichloroethane	94		99		70-130	5		30
Dibromochloromethane	103		110		70-130	7		30
1,3-Dichloropropane	96		102		69-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517281

Report Date: 07/28/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG806525-1 WG806525-2								
1,2-Dibromoethane	95		100		70-130	5		30
2-Hexanone	79		82		70-130	4		30
Chlorobenzene	97		103		70-130	6		30
Ethylbenzene	105		110		70-130	5		30
1,1,1,2-Tetrachloroethane	104		110		70-130	6		30
p/m-Xylene	107		111		70-130	4		30
o-Xylene	105		110		70-130	5		30
Styrene	99		106		70-130	7		30
Bromoform	89		93		70-130	4		30
Isopropylbenzene	103		106		70-130	3		30
Bromobenzene	94		96		70-130	2		30
1,1,2,2-Tetrachloroethane	81		85		70-130	5		30
o-Chlorotoluene	102		108		70-130	6		30
1,3,5-Trimethylbenzene	103		107		70-130	4		30
1,2,3-Trichloropropane	84		88		68-130	5		30
p-Chlorotoluene	101		104		70-130	3		30
tert-Butylbenzene	102		107		70-130	5		30
1,2,4-Trimethylbenzene	102		105		70-130	3		30
sec-Butylbenzene	105		108		70-130	3		30
p-Isopropyltoluene	104		109		70-130	5		30
1,3-Dichlorobenzene	97		103		70-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517281

Report Date: 07/28/15

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG806525-1 WG806525-2								
1,4-Dichlorobenzene	97		101		70-130	4		30
n-Butylbenzene	101		104		70-130	3		30
1,2-Dichlorobenzene	95		100		70-130	5		30
1,2-Dibromo-3-chloropropane	82		83		68-130	1		30
Hexachlorobutadiene	104		108		67-130	4		30
1,2,4-Trichlorobenzene	91		96		70-130	5		30
Naphthalene	74		80		70-130	8		30
1,2,3-Trichlorobenzene	87		93		70-130	7		30
tert-Butyl Alcohol	84		89		40-160	6		30
Tertiary-Amyl Methyl Ether	105		112		70-130	6		30
Isopropyl Ether	107		114		70-130	6		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	115		115		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	100		98		70-130
Dibromofluoromethane	102		101		70-130

# **INORGANICS & MISCELLANEOUS**

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517281

Report Date: 07/28/15

**SAMPLE RESULTS**

Lab ID: L1517281-01  
 Client ID: DP-092-SO-010-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 12:35  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.0		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517281

Report Date: 07/28/15

**SAMPLE RESULTS**

Lab ID: L1517281-02  
 Client ID: DP-092-SO-050-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 12:40  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.3		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517281

Report Date: 07/28/15

## SAMPLE RESULTS

Lab ID: L1517281-03  
 Client ID: DP-092-SO-100-01  
 Sample Location: Not Specified  
 Matrix: Soil

Date Collected: 07/15/15 12:45  
 Date Received: 07/15/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.3		%	0.100	NA	1	-	07/17/15 00:10	30,2540G	RT



## Lab Duplicate Analysis

Batch Quality Control

Project Name: BUZZARD POINT

Project Number: 40223-002

Lab Number: L1517281

Report Date: 07/28/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG803527-1 QC Sample: L1516351-02 Client ID: DUP Sample						
Solids, Total	91.2	92.1	%	1		20



Project Name: BUZZARD POINT

Lab Number: L1517281

Project Number: 40223-002

Report Date: 07/28/15

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

**Cooler Information Custody Seal****Cooler**

A	Absent
B	Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1517281-01A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	PA-8260(14)
L1517281-02A	Vial Large Septa unpreserved (4o	A	N/A	3.1	Y	Absent	PA-8260(14)
L1517281-03A	Vial Large Septa unpreserved (4o	B	N/A	2.6	Y	Absent	PA-8260(14)

\*Values in parentheses indicate holding time in days

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517281  
**Report Date:** 07/28/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517281  
**Report Date:** 07/28/15

#### Data Qualifiers

- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

**Project Name:** BUZZARD POINT  
**Project Number:** 40223-002

**Lab Number:** L1517281  
**Report Date:** 07/28/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

Last revised December 16, 2014

**The following analytes are not included in our NELAP Scope of Accreditation:**

### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:**

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

# CHAIN OF CUSTODY



ALPHA  
 WESTBORO, MA  
 TEL: 508-898-9220  
 X: 508-898-9193

MANSFIELD, MA  
 TEL: 508-822-9300  
 FAX: 508-822-3288

Date Rec'd in Lab: 7/16/15

ALPHA Job #: L1516351

**Client Information**

Client: Haley + Aldrich  
 Address: 5333 Mission Center Rd  
San Diego, CA 92108  
 Phone: 619-285-7122

**Project Information**

Project Name:  
 Project Location:  
 Project #: 40223-002  
 Project Manager:  
 ALPHA Quote #:

**Report Information - Data Deliverables**

FAX  EMAIL  
 ADEx  Add'l Deliverables

**Billing Information**

Same as Client info PO #:

**Regulatory Requirements/Report Limits**

State /Fed Program Criteria

**Turn-Around Time**

Standard  RUSH (only confirmed if pre-approved!)  
 Date Due: Time:

Email: kennard@haleyaldrich.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

**ANALYSIS**

PCBs (EPA 8082)  
TPH (C6 + CH4) (EPA 8015)  
PAHs (EPA 8270)

PA-8260

**SAMPLE HANDLING**

Filtration \_\_\_\_\_

Done  
 Not needed  
 Lab to do  
 Preservation  
 Lab to do

(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials						TOTAL # BOTTLES
		Date	Time								
<u>17281</u>	<u>DP-089-50-010-01</u>	<u>7/15/15</u>	<u>10:40</u>	<u>SO</u>	<u>AF</u>	<u>X</u>					<u>2</u>
	<u>DP-089-50-050-01</u>	<u>7/15/15</u>	<u>10:45</u>	<u>SO</u>	<u>AF</u>	<u>X</u>					<u>2</u>
	<u>DP-090-50-050-01</u>		<u>11:45</u>			<u>X</u>					<u>2</u>
	<u>DP-090-50-100-01</u>		<u>11:50</u>			<u>X</u>					<u>2</u>
	<u>DP-091-50-050-01</u>		<u>12:05</u>			<u>X</u>					<u>2</u>
	<u>DP-091-50-100-01</u>		<u>12:10</u>			<u>X</u>					<u>2</u>
<u>-01</u>	<u>DP-092-50-010-01</u>		<u>12:35</u>			<u>X</u>	<u>X</u>		<u>X</u>		<u>2</u>
<u>-02</u>	<u>DP-092-50-050-01</u>		<u>12:40</u>			<u>X</u>	<u>X</u>		<u>X</u>		<u>2</u>
<u>-03</u>	<u>DP-092-50-100-01</u>		<u>12:45</u>			<u>X</u>	<u>X</u>		<u>X</u>		<u>2</u>

Container Type	
Preservative	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>7/15/15 1415</u>	<u>[Signature]</u>	<u>7/15/15 1415</u>
<u>[Signature]</u>	<u>7/15/15 2000</u>	<u>[Signature]</u>	<u>7/15/15 2000</u>
<u>[Signature]</u>	<u>7/15/15 2200</u>	<u>[Signature]</u>	<u>7/15/15 2200</u>