

PHASE II SOIL AND GROUNDWATER INVESTIGATION REPORT
VOLUNTARY CLEANUP PROGRAM
SUPER SALVAGE, INC., PARCEL AT BUZZARD POINT, SQUARE 0605, LOT
0802
WASHINGTON, D.C.

by Haley & Aldrich, Inc.
McLean, Virginia

for McKissack & McKissack
Washington, D.C.

File No. 40223-002





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

15 June 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 and Groundwater Investigation Report
Voluntary Cleanup Program
Super Salvage, Inc., Parcel at Buzzard Point, Square 0605, Lot 0802
Washington, D.C.

Ladies and Gentlemen:

Haley & Aldrich, Inc. (Haley & Aldrich) prepared this Phase II Soil and Groundwater Investigation Report (Report) for the Super Salvage, Inc., (Super Salvage) parcel at Buzzard Point located in Washington, D.C. ([Site]; Figure 1). The objective of this soil and groundwater investigation was to provide an evaluation of the potential impacts associated with the recognized environmental conditions (RECs) at the Site identified in the "Report on ASTM Phase I Environmental Site Assessment" dated 30 August 2013 (Haley & Aldrich, 2013a). 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 Report will assist the application for Voluntary Cleanup Program prepared for the District of Columbia Department of General Services.

Background

The Site is bound by Potomac Avenue, SW to the north, S Street, SW to the south, 1st Street, SW to the east and a property owned by Rollingwood Real Estate, LLC, (Rollingwood) property to the west, and is currently occupied by a salvage yard for diverse metal structures. A Phase I environmental site assessment was conducted at the Site that identified the following RECs:

- Potentially unlined/unpaved sump that collects Site run-off;
- Heavy staining of concrete;
- Oil layer in secondary containment under aboveground storage tanks (ASTs); and
- Concrete staining next to the northern AST.

The Site is planned for redevelopment as part of the new D.C. United soccer stadium. At this time, design drawings have not been prepared for the new stadium. 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 soil investigation considered this depth of excavation to assess soil disposition during demolition.

Subsurface Investigation

Soil and groundwater investigation activities were conducted at the Site in order to evaluate subsurface conditions and assess whether current and/or former operations at and adjacent to the Site have impacted soil and groundwater quality. These investigation activities were conducted at the Site between 9 and 27 April 2015 at the identified REC locations. Additionally, samples were collected north of the Site to investigate impacts to the adjacent property, due to Super Salvage's use of that parcel.

The following proposed sample locations were not accessible during the field investigation, therefore samples were not collected:

- Sample location GTW-605-802-3 (underlain by a significant amount of concrete);
- Sample locations GTW-605-802-4 and GSS-605-802-5 (located under storage piles); and
- Sample location GTW-605-802-8 (underlain by a significant amount of concrete).

At select locations, temporary groundwater monitoring wells were installed for groundwater sample collection and analysis. The sample analyses at each location were selected based on the potential chemicals of concern associated with the RECs. Soil and groundwater sample locations are shown in Figure 2.

SOIL SAMPLING

Soil samples were collected during advancement of direct-push borings (GSS-605-802-10, GSS-605-802-11, and GSS-605-802-12) and installation of the temporary groundwater monitoring wells (GTW-605-802-1, GTW-605-802-2, GTW-605-802-6, GTW-605-802-7, GTW-605-802-9). Borings were advanced using a track-mounted direct-push drill rig to depths ranging from 10 to 30 feet bgs. Each boring was continuously logged in accordance with the Unified Soil Classification System. Continuous soil cores were collected with hydraulic-percussive driving of a stainless steel sampling probe equipped with dedicated acetate tube liners. Soil cores were observed and documented visually for discoloration and screened for the presence of volatile organic compounds (VOCs) using a photoionization detector (PID). The soil sample was collected from the depth interval exhibiting the highest PID reading. Samples were placed in a cooler with ice and submitted for analysis to Pace Analytical Services, Inc., (Pace) under standard chain of custody procedures.

Boring logs are provided as Appendix A.

GROUNDWATER SAMPLING

Groundwater samples were collected from temporary groundwater monitoring wells (GTW-605-802-1, GTW-605-802-2, GTW-605-802-6, GTW-605-802-7, GTW-605-802-9) installed after completion of direct-push borings to 30 feet bgs. Temporary polyethylene chloride casing was installed with 5 feet of screen from approximately 23 to 30 feet bgs. Samples were collected using low-flow sampling techniques. Field parameters were measured during purging using an in-line flow cell. Groundwater samples were collected after field parameters stabilized in accordance with standard operating procedures. Samples were collected directly from dedicated plastic tubing installed in each well into laboratory-provided containers in a manner to avoid sample agitation and constituent volatilization. Samples were placed in a cooler with ice and submitted for analysis to Pace under standard chain of custody procedures.

Boring logs are provided as Appendix A.

SUBSURFACE FINDINGS

The subsurface investigation activities described herein did not define the lateral and vertical extent of chemical concentrations in soil and groundwater at the Site. The objective of this subsurface investigation was to explore the identified RECs to evaluate current conditions and assess the nature and general magnitude of potential impacts.

Soil and groundwater 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.

Soil Results

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).

For the purpose of this Report, “soil screening levels” are the lower of the above screening levels. Soil sample collection depths ranged from 0 to 15 feet bgs. The following summarizes the results by REC.

- Unlined/unpaved sump (sample locations DP-001 and DP-002): Arsenic, lead, benzo(a)pyrene, and diesel range total petroleum hydrocarbons (TPH-DRO) were detected at concentrations above soil screening levels. Soil samples were not submitted for polychlorinated biphenyl (PCB) analysis because soil samples collected in the same general area at the adjacent Rollingwood property did not PCB concentrations above soil screening levels (Haley & Aldrich, 2013b).

- Heavy staining of concrete (GSS-605-802-11): Arsenic was detected at a concentration above the soil screening level. Additionally, the highest PID reading was recorded at a depth of 10 to 15 feet bgs, therefore the soil sample was collected from this interval.
- Oil layer in secondary containment under AST (sample locations GTW-605-802-1, GTW-605-802-2, and GSS-605-802-12): Arsenic and TPH-DRO were detected at concentrations above soil screening levels.
- Concrete staining next to northern AST (sample locations GTW-605-802-9 and GSS-605-802-10): Arsenic, lead, PCBs, ethylbenzene, and TPH-DRO were detected at concentrations above soil screening levels. Reported detection limits for PAHs were elevated (due to sample dilution) above soil screening levels.
- Impacts to the adjacent property (sample locations GTW-605-802-6 and GTW-605-802-7): Arsenic and TPH-DRO were detected at concentrations above soil screening levels. Reported detection limits for PAHs were elevated (due to sample dilution) above soil screening levels.

The reported concentrations of arsenic and lead in soil above the soil screening levels may be within naturally occurring background at the Site, and if so, would not warrant remediation.

For the “high” order of magnitude cost of soil remediation (see Summary and Recommendations) at the northern AST area and impacts to the adjacent property, it was conservatively assumed that PAHs are present in soil at concentrations greater than the soil screening levels in these areas until future investigation/sampling confirms otherwise.

Soil sample analytical results and soil screening levels are provided in Table I. Laboratory analytical reports are provided as Appendix B.

Groundwater Results

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

- DC Tier 1 Risk-based groundwater screening levels for indoor and outdoor inhalation of the resident child (building occupant) from the Risk-Based Corrective Action Technical Guidance, Table 5-8 (June 2011);
- DC Tier 1 Risk-based groundwater screening levels for dermal contact of the construction worker from the Risk-Based Corrective Action Technical Guidance, Table 5-8 (June 2011) and
- EPA regional maximum contaminant levels from the EPA Regional Screening Level (RSL) Summary Table (January 2015).

For the purpose of this Report, “groundwater screening levels” are the lower of the above screening levels. The following summarizes the results by REC.

- Unlined/unpaved sump (soil sample locations DP-001 and DP-002): Groundwater samples were not collected.

- Heavy staining of concrete (soil sample location GSS-605-802-11): Groundwater samples were not collected.
- Oil layer in secondary containment under AST (sample locations GTW-605-802-1 and GTW-605-802-2): Arsenic was detected at concentrations above groundwater screening levels. Reported detection limits for thallium and select semi-volatile organic compounds ([SVOCs]; benzo[a]pyrene, and pentachlorophenol) were elevated above groundwater screening levels.
- Concrete staining next to northern AST (sample location GTW-605-802-9): Antimony, arsenic, lead, and methylene chloride were detected at concentrations above groundwater screening levels. Reported detection limits for thallium, select VOCs (1,2-dibromo-3-chloropropane, 1,2-dibromoethane and vinyl chloride), and select SVOCs (benzo[a]pyrene, hexachlorobenzene, and pentachlorophenol) were elevated above groundwater screening levels.
- Impacts to the adjacent property (sample locations GTW-605-802-6 and GTW-605-802-7): Lead and methylene chloride were detected at concentrations above the groundwater screening level. Reported detection limits for thallium, select VOCs (1,2-dibromo-3-chloropropane, 1,2-dibromoethane and vinyl chloride), and select SVOCs (benzo[a]pyrene, and pentachlorophenol) were elevated above groundwater screening levels.

The reported concentrations of arsenic in groundwater above the groundwater screening level may be within naturally occurring background at the Site, and if so, would not warrant remediation.

Although detection limits for SVOCs (benzo(a)pyrene, hexachlorobenzene, and pentachlorophenol) in groundwater were above groundwater screening levels, there were no other SVOCs detected. PAHs are usually reported as constituents of higher molecular weight TPH mixtures, such as TPH-DRO and oil range total petroleum hydrocarbons (TPH). Typically when detected, more than one PAH is reported. TPH mixtures were not detected in groundwater, and although benzo(a)pyrene was reported at an elevated detection limit slightly greater than the groundwater screening level, no other PAHs were detected. It is therefore unlikely that benzo(a)pyrene is detected at concentrations greater than the groundwater screening level in the groundwater samples collected at the Site.

Methylene chloride was not detected in soil samples in proximity to the groundwater sample locations with reported methylene chloride in groundwater above groundwater screening levels. Methylene chloride is a typical laboratory contaminant. Since a potential source of methylene chloride was not identified in soil at these locations, detections of methylene chloride in the groundwater samples collected at locations GTW-605-802-6 and GTW-605-802-9 may be attributed to laboratory contamination.

Thallium was not present in concentrations above the soil screening level. Although the detection limit for thallium in groundwater is greater than the groundwater screening level, it appears unlikely that concentrations of thallium are of concern at the Site. Other VOCs with elevated detection limits and thallium were not detected in soil and are assumed not to be present in groundwater without this pathway.

Groundwater sample analytical results and groundwater screening levels are provided in Table I. Laboratory analytical reports are provided as Appendix B.

Summary and Recommendations

In summary, soil and groundwater samples were collected for evaluation of the presence of chemicals at the five identified RECs associated with the Site; four sample locations were inaccessible. The following is recommended:

- Groundwater sample collection at the unlined/unpaved sump area to investigation concentrations and field observations noted at the adjacent Rollingwood property (Haley & Aldrich, 2013b);
- Sample collection at the inaccessible sample locations;
- Preparation of a Site-specific background metals evaluation for soil and groundwater;
- Preparation of a soil management plan to provide guidance on the demolition environmental monitoring process; and
- Implementation of the soil management plan during Site redevelopment to provide environmental oversight of demolition activities and ensure soil is properly segregated and disposed of off-Site.

Based on the analytical results collected to date, soil remediation may be required to reduce the threat to human health for the on-Site construction worker and future occupant and to reduce the threat to groundwater quality. Potential order of magnitude cost impacts from the identified RECs at the Site range from \$240,000 to \$3,600,000. These costs and their associated assumptions are summarized in Table 3. The soil screening levels and groundwater screening levels used for evaluation of impacts at the Site do not account for cumulative health risks. Additionally, groundwater remediation and/or vapor intrusion mitigation in the construction of the stadium may be required to reduce the threat to human health.

These sampling/characterization recommendations and the potential order of magnitude costs for soil remediation are based on the currently available data understanding that several unanticipated Site restrictions associated with an active salvage yard and unknown subsurface restrictions were encountered during the investigation activities described in this Report. The presence of a significant layer of concrete under portions of the Site restricted investigation at the locations indicated previously.

Limitations

All recommendations are based solely upon Site conditions in existence at the time of performance of services. Haley & Aldrich is unable to report on, or accurately predict events that may impact the Site or system following preparation of this document, whether occurring naturally 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 or system 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
- Table 2 – Summary of Groundwater Sample Analytical Results
- Table 3 – Order of Magnitude Soil Remediation Costs
- Figure 1 – Site Locus
- Figure 2 – Site Plan and Sample Locations
- Appendix A – Boring Logs
- Appendix B – Laboratory Analytical Reports

References

1. Haley & Aldrich, Inc., 2013a. Report on ASTM Phase I Environmental Site Assessment, Potomac Avenue & 1st Street SW, Washington, DC. 30 August.
2. Haley & Aldrich, Inc., 2013b. Report on ASTM Phase I Environmental Site Assessment with Limited Phase II Subsurface Sampling, EIN Property at Square 0605, Lot 0007, 1712 2nd Street, SW Washington, D.C. 23 October.

TABLE 1
 SUMMARY OF SOIL ANALYTICAL RESULTS
 SUPER SALVAGE, INC., PARCEL AT BUZZARD POINT, SQUARE 0605, LOT 0802
 WASHINGTON, D.C.

Location Sample Date Sample Name Sample Type Sample Depth (ft bgs)	DC Tier 0 Soil Standards ¹	EPA Regional Screening Level for Industrial Soil ²	DP-001-SO-100 04/22/2015 DP-001-SO-100-01 Primary 0 - 10	DP-002-SO-100 04/22/2015 DP-002-SO-100-01 Primary 0 - 10	GTW-605-802-1 04/22/2015 GTW-605-802-1-1 Primary 15 - 20	GTW-605-802-2 04/22/2015 GTW-605-802-2-1 Primary 5 - 10	GTW-605-802-6 04/09/2015 GTW-605-802-6-1 Primary 3 - 5	GTW-605-802-7 04/10/2015 GTW-605-802-7-1 Primary 5 - 8	GTW-605-802-9 04/09/2015 GTW-605-802-9-1 Primary 3 - 5	GSS-605-802-10 04/21/2015 GSS-605-802-10-1 Primary 1.5 - 5	GSS-605-802-11 04/22/2015 GSS-605-802-11-1 Primary 10 - 15	GSS-605-802-12 04/22/2015 GSS-605-802-12-1 Primary 10 - 15	GSS-605-802-12 04/22/2015 GSS-605-802-12-2 Duplicate 10 - 15
Inorganic Compounds (mg/kg)	mg/kg	mg/kg											
Aluminum	-	1,100,000	4,380	3,990	14,400	7,360	3,030	4,400	4,860	8,420	10,600	6,530	10,700
Antimony	-	470	7.8	14.1	< 0.57	< 0.45	1.1	2.4	3.2	16.9	< 0.41	2.7	< 0.56
Arsenic	-	3.0	6.5	7.5	4.2	7.1	12.7	3.9	14.8	7.6	4.1	9.7	6.0
Barium	-	220,000	242	243	104	68.3	106	53.2	246	159	68.7	139	97.5
Beryllium	-	2,300	0.22	0.23	0.92	0.87	0.42	0.91	0.37	0.083	0.48	0.42	0.71
Cadmium	-	980	0.69	0.23	0.11 J	0.054 J	0.18	0.25	2.1	4.8	0.069 J	0.23	0.098 J
Calcium	-	-	48,600	34,000	1,390	1,830	4,670	4,120	9,020	72,600	648	31,500	366
Chromium	-	-	33.9	29.9	16.9	9.1	6.0	9.8	19.4	47.7	15.0	17.5	12.9
Cobalt	-	350	7.7	7.2	8.3	20.4	3.3	3.9	5.8	11.2	3.4	5.8	10.8
Copper	-	47,000	373	329	27.1	7.0	55.3	53.1	104	662	12.6	55.1	16.2
Iron	-	820,000	27,300	26,500	26,900	16,000	7,130	14,700	24,100	37,100	21,200	15,600	25,500
Lead	-	800	1,450	1,690	14.4	14.8	302	62.1	475	1,740	11.1	502	14.3
Magnesium	-	-	2,300	1,740	2,790	672	335	392	1,500	4,460	1,560	1,950	1,800
Manganese	-	26,000	323	320	134	2,310	73.1	57.6	297	348	87.6	319	274
Mercury	-	40	0.60	1.6	0.014	0.049	0.12	0.021	0.19	0.40	0.030	0.41	0.0078
Nickel	-	22,000	119	13.0	17.3	6.9	8.3	9.6	15.3	279	7.9	8.8	11.4
Potassium	-	-	525	535	777	517	< 550	< 596	790	1,310	413	812	< 565
Selenium	-	5,800	< 0.70	< 0.95	< 1.1	< 0.90	< 1.1	< 1.2	< 1.1	< 0.80	< 0.82	< 1.1	< 1.1
Silver	-	5,800	0.45	0.44 J	< 0.57	< 0.45	0.32 J	0.73	0.87	1.6	< 0.41	0.70	< 0.56
Sodium	-	-	231 J	< 476	< 570	< 450	< 550	< 596	399 J	585	< 412	< 549	< 565
Thallium	-	12	< 0.70	< 0.95	< 1.1	< 0.90	< 1.1	< 1.2	< 1.1	< 0.80	< 0.82	< 1.1	< 1.1
Vanadium	-	5,800	18.1	19.0	32.5	22.2	13.6	19.8	21.1	890	27.0	20.8	27.2
Zinc	-	350,000	470	418	51.5	19.0	76.5	41.7	371	1,560	26.4	212	35.7
Polychlorinated Biphenyls (µg/kg)	µg/kg	µg/kg											
Aroclor-1016 (PCB-1016)	-	30,000	-	-	< 47.4	< 223	< 39.9	< 379	< 383	< 208	< 40.8	< 40.6	< 417
Aroclor-1221 (PCB-1221)	-	660	-	-	< 47.4	< 223	< 39.9	< 379	< 383	< 208	< 40.8	< 40.6	< 417
Aroclor-1232 (PCB-1232)	-	660	-	-	< 47.4	< 223	< 39.9	< 379	< 383	< 208	< 40.8	< 40.6	< 417
Aroclor-1242 (PCB-1242)	-	1,000	-	-	< 47.4	< 223	< 39.9	< 379	2,280	2,360	< 40.8	< 40.6	< 417
Aroclor-1248 (PCB-1248)	-	1,000	-	-	< 47.4	< 223	< 39.9	< 379	< 383	2,020	< 40.8	< 40.6	< 417
Aroclor-1254 (PCB-1254)	-	1,000	-	-	< 47.4	< 223	< 39.9	< 379	< 383	< 208	< 40.8	< 40.6	< 417
Aroclor-1260 (PCB-1260)	-	1,000	-	-	< 47.4	< 223	< 39.9	< 379	2,010	< 208	< 40.8	27.0 J	< 417
Polycyclic Aromatic Hydrocarbons (µg/kg)	µg/kg	µg/kg											
1-Methylnaphthalene	-	73,000	-	< 388	-	-	< 20,000	2840 J	< 19,100	-	-	-	-
2-Methylnaphthalene	-	3,000,000	-	< 388	-	-	< 20,000	3420 J	< 19,100	-	-	-	-
Acenaphthene	-	45,000,000	-	125 J	-	-	< 20,000	< 6,370	< 19,100	-	-	-	-
Acenaphthylene	-	-	-	104 J	-	-	< 20,000	< 6,370	< 19,100	-	-	-	-
Anthracene	-	230,000,000	-	463	-	-	< 20,000	< 6,370	< 19,100	-	-	-	-
Benzo(a)anthracene	-	2,900	-	1,300	-	-	< 20,000	< 6,370	< 19,100	-	-	-	-
Benzo(a)pyrene	-	290	-	1,240	-	-	< 20,000	< 6,370	< 19,100	-	-	-	-
Benzo(b)fluoranthene	-	2,900	-	1,480	-	-	< 20,000	< 6,370	< 19,100	-	-	-	-
Benzo(g,h,i)perylene	-	-	-	833	-	-	< 20,000	< 6,370	< 19,100	-	-	-	-
Benzo(k)fluoranthene	-	29,000	-	600	-	-	< 20,000	< 6,370	< 19,100	-	-	-	-
Chrysene	-	290,000	-	1,150	-	-	< 20,000	< 6,370	< 19,100	-	-	-	-
Dibenz(a,h)anthracene	-	290	-	< 388	-	-	< 20,000	< 6,370	< 19,100	-	-	-	-
Fluoranthene	-	30,000,000	-	3,010	-	-	< 20,000	< 6,370	5560 J	-	-	-	-
Fluorene	-	30,000,000	-	127 J	-	-	< 20,000	< 6,370	< 19,100	-	-	-	-

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Indeno(1,2,3-cd)pyrene	-	2,900	-	718	-	-	< 20,000	< 6,370	< 19,100	-	-	-	-
Naphthalene	-	17,000	-	118 J	-	-	< 20,000	2750 J	< 19,100	-	-	-	-
Phenanthrene	-	-	-	1,780	-	-	< 20,000	1670 J	4190 J	-	-	-	-
Pyrene	-	23,000,000	-	2,010	-	-	< 20,000	< 6,370	4900 J	-	-	-	-
Total Petroleum Hydrocarbons (mg/kg)	mg/kg	mg/kg											
Total Petroleum Hydrocarbons (C6-C10) GRO	100	-	< 7.0	< 7.1	< 8.6	< 8.0	< 7.3	10.7	< 6.9	< 7.6	< 7.4	< 7.3	< 7.6
Total Petroleum Hydrocarbons (C10-C28) DRO	100	-	240	356	< 7.2	135	124	299	3,260	782	< 6.2	173	25.2
Total Petroleum Hydrocarbons (C28-C40)	-	-	-	-	-	-	344	319	6,590	-	-	-	-
Volatile Organic Compounds (µg/kg)	µg/kg	µg/kg											
1,1,1,2-Tetrachloroethane	-	8,800	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,1,1-Trichloroethane	-	36,000,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,1,2,2-Tetrachloroethane	-	2,700	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,1,2-Trichloroethane	-	5,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,1-Dichloroethane	-	16,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,1-Dichloroethene	-	1,000,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,1-Dichloropropene	-	-	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,2,3-Trichlorobenzene	-	660,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,2,3-Trichloropropane	-	110	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,2,4-Trichlorobenzene	-	110,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,2,4-Trimethylbenzene	-	240,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	1,980	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	-	64	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,2-Dibromoethane (Ethylene Dibromide)	-	160	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,2-Dichlorobenzene	-	9,300,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,2-Dichloroethane	-	2,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,2-Dichloropropane	-	4,400	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,3,5-Trimethylbenzene	-	12,000,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	847	-	-	-	-
1,3-Dichlorobenzene	-	-	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,3-Dichloropropane	-	23,000,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
1,4-Dichlorobenzene	-	11,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
2,2-Dichloropropane	-	-	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	-	190,000,000	< 85.3	< 117	-	-	< 148	< 193	444 J	-	-	-	-
2-Chlorotoluene	-	23,000,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
2-Hexanone	-	1,300,000	< 42.7	< 58.7	-	-	< 73.9	< 96.3	< 1,410	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	-	120,000,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	75.0 J	-	-	-	-
4-Chlorotoluene	-	23,000,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	-	56,000,000	< 42.7	< 58.7	-	-	< 73.9	< 96.3	< 1,410	-	-	-	-
Acetone	-	670,000,000	66.3 J	53.2 J	-	-	< 148	173 J	< 2,830	-	-	-	-
Benzene	5	5,100	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Bromobenzene	-	1,800,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Bromodichloromethane	-	1,300	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Bromoform	-	290,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Bromomethane (Methyl Bromide)	-	30,000	< 8.5	< 11.7	-	-	< 14.8	< 19.3	< 283	-	-	-	-
Carbon tetrachloride	-	2,900	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Chlorobenzene	-	1,300,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Chlorobromomethane	-	630,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Chloroethane	-	57,000,000	< 8.5	< 11.7	-	-	< 14.8	< 19.3	< 283	-	-	-	-
Chloroform (Trichloromethane)	-	1,400	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Chloromethane (Methyl Chloride)	-	460,000	< 8.5	< 11.7	-	-	< 14.8	< 19.3	< 283	-	-	-	-

TABLE 1
 SUMMARY OF SOIL ANALYTICAL RESULTS
 SUPER SALVAGE, INC., PARCEL AT BUZZARD POINT, SQUARE 0605, LOT 0802
 WASHINGTON, D.C.

Location Sample Date Sample Name Sample Type Sample Depth (ft bgs)	DC Tier 0 Soil Standards ¹	EPA Regional Screening Level for Industrial Soil ²	DP-001-SO-100 04/22/2015 DP-001-SO-100-01 Primary 0 - 10	DP-002-SO-100 04/22/2015 DP-002-SO-100-01 Primary 0 - 10	GTW-605-802-1 04/22/2015 GTW-605-802-1-1 Primary 15 - 20	GTW-605-802-2 04/22/2015 GTW-605-802-2-1 Primary 5 - 10	GTW-605-802-6 04/09/2015 GTW-605-802-6-1 Primary 3 - 5	GTW-605-802-7 04/10/2015 GTW-605-802-7-1 Primary 5 - 8	GTW-605-802-9 04/09/2015 GTW-605-802-9-1 Primary 3 - 5	GSS-605-802-10 04/21/2015 GSS-605-802-10-1 Primary 1.5 - 5	GSS-605-802-11 04/22/2015 GSS-605-802-11-1 Primary 10 - 15	GSS-605-802-12 04/22/2015 GSS-605-802-12-1 Primary 10 - 15	GSS-605-802-12 04/22/2015 GSS-605-802-12-2 Duplicate 10 - 15
cis-1,2-Dichloroethene	-	2,300,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
cis-1,3-Dichloropropene	-	-	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Cymene (p-Isopropyltoluene)	-	-	< 4.3	< 5.9	-	-	< 7.4	< 9.6	270	-	-	-	-
Dibromochloromethane	-	3,200	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Dibromomethane	-	98,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Dichlorodifluoromethane (CFC-12)	-	370,000	< 8.5	< 11.7	-	-	< 14.8	< 19.3	< 283	-	-	-	-
Diisopropyl ether	-	9,400,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Ethylbenzene	40	25,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	114 J	-	-	-	-
Hexachlorobutadiene	-	30,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Isopropylbenzene	-	9,900,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	64.2 J	-	-	-	-
m,p-Xylenes	-	-	< 8.5	< 11.7	-	-	< 14.8	< 19.3	328	-	-	-	-
Methyl Tert Butyl Ether	-	210,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Methylene chloride	-	1,000,000	3.7 J	14.8 J	-	-	< 29.6	21.6 J	< 565	-	-	-	-
Naphthalene	-	17,000	< 4.3	1.7 J	-	-	3.8 J	< 9.6	730	-	-	-	-
n-Butylbenzene	-	58,000,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	169	-	-	-	-
n-Propylbenzene	-	22,000,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	125 J	-	-	-	-
o-Xylene	-	2,800,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	329	-	-	-	-
Styrene	-	35,000,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
tert-Butylbenzene	-	120,000,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Tetrachloroethene	-	100,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Toluene	9,600	47,000,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	118 J	-	-	-	-
trans-1,2-Dichloroethene	-	23,000,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
trans-1,3-Dichloropropene	-	-	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Trichloroethene	-	6,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	< 141	-	-	-	-
Trichlorofluoromethane (CFC-11)	-	3,100,000	< 4.3	< 5.9	-	-	< 7.4	< 9.6	119 J	-	-	-	-
Vinyl acetate	-	3,800,000	< 42.7	< 58.7	-	-	< 73.9	< 96.3	< 1,410	-	-	-	-
Vinyl chloride	-	1,700	< 8.5	< 11.7	-	-	< 14.8	< 19.3	< 283	-	-	-	-
Xylene (total)	3,860	2,500,000	< 8.5	< 11.7	-	-	< 14.8	< 19.3	657	-	-	-	-

NOTES

Bold where detected; highlighted where exceeds

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

-- = screening level not available/sample not analyzed

< = not detected at the indicated reporting limit

J = estimated value

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 GROUNDWATER ANALYTICAL RESULTS
 SUPER SALVAGE, INC., PARCEL AT BUZZARD POINT, SQUARE 0605, LOT 0802
 WASHINGTON, D.C.

Location Sample Date Sample Name Sample Type Sample Depth (ft bgs)	DC Tier 1 Risk-based Groundwater Screening Level ¹			EPA Regional Maximum Contaminant Level ²	GTW-605-802-1 04/27/2015 GTW-605-802-1-2 Primary 23.5 - 28.5	GTW-605-802-2 04/27/2015 GTW-605-802-2-2 Primary 24.5 - 29.5	GTW-605-802-2 04/27/2015 GTW-605-802-2-3 Duplicate 24.5 - 29.5	GTW-605-802-6 04/27/2015 GTW-605-802-6-2 Primary 24.5 - 29.5	GTW-605-802-7 04/27/2015 GTW-605-802-7-2 Primary 25 - 30	GTW-605-802-9 04/10/2015 GTW-605-802-9-2 Primary 24.5 - 29.5
	Indoor Inhalation	Outdoor Inhalation	Dermal Contact							
Inorganic Compounds (µg/L)	µg/L	µg/L	µg/L	µg/L						
Aluminum, Total	-	-	-	-	3,030	4,580	3,450	3,690	68.7 J	24,300
Antimony, Total	-	-	-	6	< 5.0	8.6	7.1	< 5.0	< 5.0	6.9
Arsenic, Total	-	-	-	10	< 10	7.4 J	< 10	< 10	< 10	10.6
Barium, Total	-	-	-	2,000	33.5	33.6	25.5	127	91.2	359
Beryllium, Total	-	-	-	4	0.19 J	0.31 J	0.33 J	0.37 J	< 1.0	1.5
Cadmium, Total	-	-	-	5	< 1.0	0.41 J	0.55 J	0.097 J	< 1.0	1.3
Calcium, Total	-	-	-	-	47,600	48,600	42,600	14,000	69,000	125,000
Chromium, Total	-	-	-	100	5.9	11.7	8.6	8.9	< 5.0	41.6
Cobalt, Total	-	-	-	-	28.8	92	74.7	60.8	18.6	82.2
Copper, Total	-	-	-	1,300	14.7	9.5	17.6	12.1	3.6 J	42.2
Iron, Total	-	-	-	-	6,210	10,500	7,390	10,500	944	45,600
Lead, Total	-	-	-	15	6.5	8.8	11.5	15.2	2.7 J	30.2
Magnesium, Total	-	-	-	-	37,300	46,000	41,900	15,400	33,800	73,900
Manganese, Total	-	-	-	-	4,570	5,450	4,420	2,740	2,840	17,600
Mercury, Total	-	-	-	2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Nickel, Total	-	-	-	-	14.7	35.5	29.5	18.4	14	41.6
Potassium, Total	-	-	-	-	4750 J	2960 J	< 5,000	< 5,000	3710 J	8780
Selenium, Total	-	-	-	50	< 10	< 10	< 10	< 10	< 10	< 10
Silver, Total	-	-	-	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	3.9 J
Sodium, Total	-	-	-	-	208,000	768,000	765,000	252,000	50,900	411,000
Thallium, Total	-	-	-	2	< 10	< 10	< 10	< 10	< 10	< 10
Vanadium, Total	-	-	-	-	10.7	16	12.1	10.6	< 5.0	69.8
Zinc, Total	-	-	-	-	28.2	59.3	51	77.7	29.2	107
Total Petroleum Hydrocarbons (mg/L)	mg/L	mg/L	mg/L	mg/L						
Total Petroleum Hydrocarbons (C6-C10) GRO	38.8	85,400	-	-	< 0.080	< 0.080	0.12 J	< 0.080	< 0.080	< 0.080
Total Petroleum Hydrocarbons (C10-C28) DRO	245	543,000	-	-	< 0.50	0.62	< 0.50	1.2	0.11 J	< 0.50
Total Petroleum Hydrocarbons (C28-C40)	-	-	-	-	-	-	-	-	-	< 2.0
Semi-Volatile Organic Compounds (µg/L)	µg/L	µg/L	µg/L	µg/L						
1,2,4-Trichlorobenzene	-	-	-	70	< 10	< 10	< 10	-	< 10	< 20
1,2-Dichlorobenzene	-	-	-	600	< 10	< 10	< 10	-	< 10	< 20
1,3-Dichlorobenzene	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
1,4-Dichlorobenzene	-	-	-	75	< 10	< 10	< 10	-	< 10	< 20
1-Methylnaphthalene	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
2,2'-oxybis(1-Chloropropane)	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
2,4,5-Trichlorophenol	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
2,4,6-Trichlorophenol	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
2,4-Dichlorophenol	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
2,4-Dimethylphenol	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
2,4-Dinitrophenol	-	-	-	-	< 50	< 50	< 50	-	< 50	< 100
2,4-Dinitrotoluene	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
2,6-Dinitrotoluene	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
2-Chloronaphthalene	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20

TABLE 2
 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
 SUPER SALVAGE, INC., PARCEL AT BUZZARD POINT, SQUARE 0605, LOT 0802
 WASHINGTON, D.C.

Location Sample Date Sample Name Sample Type Sample Depth (ft bgs)	DC Tier 1 Risk-based Groundwater Screening Level ¹			EPA Regional Maximum Contaminant Level ²	GTW-605-802-1 04/27/2015	GTW-605-802-2 04/27/2015	GTW-605-802-2 04/27/2015	GTW-605-802-6 04/27/2015	GTW-605-802-7 04/27/2015	GTW-605-802-9 04/10/2015
	Indoor Inhalation	Outdoor Inhalation	Dermal Contact		GTW-605-802-1-2 Primary 23.5 - 28.5	GTW-605-802-2-2 Primary 24.5 - 29.5	GTW-605-802-2-3 Duplicate 24.5 - 29.5	GTW-605-802-6-2 Primary 24.5 - 29.5	GTW-605-802-7-2 Primary 25 - 30	GTW-605-802-9-2 Primary 24.5 - 29.5
2-Chlorophenol	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
2-Methylnaphthalene	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
2-Methylphenol	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
2-Nitroaniline	-	-	-	-	< 50	< 50	< 50	-	< 50	< 100
2-Nitrophenol	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
3&4-Methylphenol	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
3,3'-Dichlorobenzidine	-	-	-	-	< 20	< 20	< 20	-	< 20	< 40
3-Nitroaniline	-	-	-	-	< 50	< 50	< 50	-	< 50	< 100
4,6-Dinitro-2-methylphenol	-	-	-	-	< 20	< 20	< 20	-	< 20	< 40
4-Bromophenyl phenyl ether	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
4-Chloro-3-methylphenol	-	-	-	-	< 20	< 20	< 20	-	< 20	< 40
4-Chloroaniline	-	-	-	-	< 20	< 20	< 20	-	< 20	< 40
4-Chlorophenyl phenyl ether	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
4-Nitroaniline	-	-	-	-	< 20	< 20	< 20	-	< 20	< 40
4-Nitrophenol	-	-	-	-	< 50	< 50	< 50	-	< 50	< 100
Acenaphthene	-	-	18,200	-	< 10	< 10	< 10	-	< 10	< 20
Acenaphthylene	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Aniline	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Anthracene	-	-	810,000	-	< 10	< 10	< 10	-	< 10	< 20
Benzo(a)anthracene	2,300	4,930,000	4.42	-	< 10	< 10	< 10	-	< 10	< 20
Benzo(a)pyrene	569	623,000	0.26	0.2	< 10	< 10	< 10	-	< 10	< 20
Benzo(b)fluoranthene	6,520	10,100,000	2.55	-	< 10	< 10	< 10	-	< 10	< 20
Benzo(g,h,i)perylene	-	-	628	-	< 10	< 10	< 10	-	< 10	< 20
Benzo(k)fluoranthene	6,790	10,100,000	36.6	-	< 10	< 10	< 10	-	< 10	< 20
Benzoic acid	-	-	-	-	< 50	< 50	< 50	-	< 50	< 100
Benzyl Alcohol	-	-	-	-	< 20	< 20	< 20	-	< 20	< 40
bis(2-Chloroethoxy)methane	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
bis(2-Chloroethyl)ether	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
bis(2-Ethylhexyl)phthalate	-	-	-	6	< 6.0	< 6.0	< 6.0	-	< 6.0	< 12
Butyl benzylphthalate	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Chrysene	39,900	84,100,000	442	-	< 10	< 10	< 10	-	< 10	< 20
Dibenz(a,h)anthracene	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Dibenzofuran	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Diethyl phthalate	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Dimethyl phthalate	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Di-n-butylphthalate	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Di-n-octyl phthalate	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Fluoranthene	-	-	4,620	-	< 10	< 10	< 10	-	< 10	< 20
Fluorene	-	-	16,200	-	< 10	< 10	< 10	-	< 10	< 20
Hexachlorobenzene	-	-	-	1	< 10	< 10	< 10	-	< 10	< 20
Hexachlorobutadiene	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Hexachlorocyclopentadiene	-	-	-	50	< 10	< 10	< 10	-	< 10	< 20
Hexachloroethane	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Indeno(1,2,3-cd)pyrene	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Isophorone	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Naphthalene	764	1,690,000	17,900	-	< 10	< 10	< 10	-	< 10	< 20
Nitrobenzene	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20

TABLE 2
 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
 SUPER SALVAGE, INC., PARCEL AT BUZZARD POINT, SQUARE 0605, LOT 0802
 WASHINGTON, D.C.

Location Sample Date Sample Name Sample Type Sample Depth (ft bgs)	DC Tier 1 Risk-based Groundwater Screening Level ¹			EPA Regional Maximum Contaminant Level ²	GTW-605-802-1 04/27/2015	GTW-605-802-2 04/27/2015	GTW-605-802-2 04/27/2015	GTW-605-802-6 04/27/2015	GTW-605-802-7 04/27/2015	GTW-605-802-9 04/10/2015
	Indoor Inhalation	Outdoor Inhalation	Dermal Contact		GTW-605-802-1-2 Primary 23.5 - 28.5	GTW-605-802-2-2 Primary 24.5 - 29.5	GTW-605-802-2-3 Duplicate 24.5 - 29.5	GTW-605-802-6-2 Primary 24.5 - 29.5	GTW-605-802-7-2 Primary 25 - 30	GTW-605-802-9-2 Primary 24.5 - 29.5
N-Nitrosodimethylamine	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
N-Nitrosodi-n-propylamine	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
N-Nitrosodiphenylamine	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Pentachlorophenol	-	-	-	1	< 25	< 25	< 25	-	< 25	< 50
Phenanthrene	-	-	6,300	-	< 10	< 10	< 10	-	< 10	< 20
Phenol	-	-	-	-	< 10	< 10	< 10	-	< 10	< 20
Pyrene	-	-	3,930	-	< 10	< 10	< 10	-	< 10	< 20
Volatile Organic Compounds (µg/L)	µg/L	µg/L	µg/L	µg/L						
1,1,1,2-Tetrachloroethane	-	-	-	-	-	-	-	< 10	-	< 10
1,1,1-Trichloroethane	-	-	-	200	-	-	-	< 10	-	< 10
1,1,2,2-Tetrachloroethane	-	-	-	-	-	-	-	< 10	-	< 10
1,1,2-Trichloroethane	-	-	-	5	-	-	-	< 10	-	< 10
1,1-Dichloroethane	-	-	-	-	-	-	-	< 10	-	< 10
1,1-Dichloroethene	-	-	-	7	-	-	-	< 10	-	< 10
1,1-Dichloropropene	-	-	-	-	-	-	-	< 10	-	< 10
1,2,3-Trichlorobenzene	-	-	-	-	-	-	-	< 10	-	< 10
1,2,3-Trichloropropane	-	-	-	-	-	-	-	< 10	-	< 10
1,2,4-Trichlorobenzene	-	-	-	70	-	-	-	< 10	-	< 10
1,2-Dibromo-3-chloropropane (DBCP)	-	-	-	0.2	-	-	-	< 20	-	< 20
1,2-Dibromoethane (Ethylene Dibromide)	40	88,100	358	0.05	-	-	-	< 10	-	< 10
1,2-Dichlorobenzene	-	-	-	600	-	-	-	< 10	-	< 10
1,2-Dichloroethane	305	672,000	8,970	5	-	-	-	< 10	-	< 10
1,2-Dichloropropane	-	-	-	5	-	-	-	< 10	-	< 10
1,3-Dichlorobenzene	-	-	-	-	-	-	-	< 10	-	< 10
1,3-Dichloropropane	-	-	-	-	-	-	-	< 10	-	< 10
1,4-Dichlorobenzene	-	-	-	75	-	-	-	< 10	-	< 10
2,2-Dichloropropane	-	-	-	-	-	-	-	< 10	-	< 10
2-Butanone (Methyl Ethyl Ketone)	-	-	-	-	-	-	-	< 50	-	< 50
2-Chlorotoluene	-	-	-	-	-	-	-	< 10	-	< 10
2-Hexanone	-	-	-	-	-	-	-	< 50	-	< 50
4-Chlorotoluene	-	-	-	-	-	-	-	< 10	-	< 10
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	-	-	-	-	-	-	-	< 50	-	< 50
Acetone	-	-	-	-	-	-	-	< 250	-	< 250
Benzene	270	591,000	4,710	5	-	-	-	< 10	-	< 10
Bromobenzene	-	-	-	-	-	-	-	< 10	-	< 10
Bromodichloromethane	-	-	-	80	-	-	-	< 10	-	< 10
Bromoform	-	-	-	80	-	-	-	< 10	-	< 10
Bromomethane (Methyl Bromide)	-	-	-	-	-	-	-	< 20	-	< 20
Carbon tetrachloride	-	-	-	5	-	-	-	< 10	-	< 10
Chlorobenzene	-	-	-	100	-	-	-	< 10	-	< 10
Chlorobromomethane	-	-	-	-	-	-	-	< 10	-	< 10
Chloroethane	-	-	-	-	-	-	-	< 10	-	< 10
Chloroform (Trichloromethane)	-	-	-	80	-	-	-	< 10	-	< 10
Chloromethane (Methyl Chloride)	-	-	-	-	-	-	-	< 10	-	< 10

TABLE 2
 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
 SUPER SALVAGE, INC., PARCEL AT BUZZARD POINT, SQUARE 0605, LOT 0802
 WASHINGTON, D.C.

Location Sample Date Sample Name Sample Type Sample Depth (ft bgs)	DC Tier 1 Risk-based Groundwater Screening Level ¹			EPA Regional Maximum Contaminant Level ²	GTW-605-802-1 04/27/2015	GTW-605-802-2 04/27/2015	GTW-605-802-2 04/27/2015	GTW-605-802-6 04/27/2015	GTW-605-802-7 04/27/2015	GTW-605-802-9 04/10/2015
	Indoor Inhalation	Outdoor Inhalation	Dermal Contact		GTW-605-802-1-2 Primary 23.5 - 28.5	GTW-605-802-2-2 Primary 24.5 - 29.5	GTW-605-802-2-3 Duplicate 24.5 - 29.5	GTW-605-802-6-2 Primary 24.5 - 29.5	GTW-605-802-7-2 Primary 25 - 30	GTW-605-802-9-2 Primary 24.5 - 29.5
cis-1,2-Dichloroethene	-	-	-	70	-	-	-	< 10	-	< 10
cis-1,3-Dichloropropene	-	-	-	-	-	-	-	< 10	-	< 10
Cymene (p-Isopropyltoluene)	-	-	-	-	-	-	-	< 10	-	< 10
Dibromochloromethane	-	-	-	80	-	-	-	< 10	-	< 10
Dibromomethane	-	-	-	-	-	-	-	< 10	-	< 10
Dichlorodifluoromethane (CFC-12)	-	-	-	-	-	-	-	< 10	-	< 10
Diisopropyl ether	-	-	-	-	-	-	-	< 10	-	< 10
Ethylbenzene	826	1,810,000	6,200	700	-	-	-	< 10	-	< 10
Hexachlorobutadiene	-	-	-	-	-	-	-	< 10	-	< 10
m,p-Xylenes	-	-	-	-	-	-	-	< 20	-	< 20
Methyl Tert Butyl Ether	64,200	142,000,000	116,000	-	-	-	-	< 10	-	9.9 J
Methylene chloride	-	-	-	5	-	-	-	42.4	-	11.7 J
Naphthalene	764	1,690,000	17,900	-	-	-	-	< 10	-	< 10
o-Xylene	-	-	-	-	-	-	-	< 10	-	< 10
Styrene	-	-	-	100	-	-	-	< 10	-	< 10
Tetrachloroethene	-	-	-	5	-	-	-	< 10	-	< 10
Toluene	900,000	1,970,000,000	132,000	1,000	-	-	-	< 10	-	< 10
trans-1,2-Dichloroethene	-	-	-	100	-	-	-	< 10	-	< 10
trans-1,3-Dichloropropene	-	-	-	-	-	-	-	< 10	-	< 10
Trichloroethene	-	-	-	5	-	-	-	< 10	-	< 10
Trichlorofluoromethane (CFC-11)	-	-	-	-	-	-	-	< 10	-	< 10
Vinyl acetate	-	-	-	-	-	-	-	< 20	-	< 20
Vinyl chloride	-	-	-	2	-	-	-	< 10	-	< 10
Xylene (total)	20,500	44,900,000	181,000	10,000	-	-	-	< 20	-	< 20

NOTES
 Bold where detected; highlighted where exceeds
 ft bgs = feet below ground surface; well screen interval
 mg/L = milligrams per liter
 µg/L = micrograms per liter
 -- = screening level not available/sample not analyzed
 < = not detected at the indicated reporting limit
 J = estimated value

1. District of Columbia Risk-Based Corrective Action Technical Guidance, Table 5-8 Risk-based Screening Levels for resident child (building occupant) indoor/outdoor inhalation and construction worker dermal contact (June 2011)
 2. United States Environmental Protection Agency (EPA) Regional Screening Level (RSL) Summary Table (January 2015)

TABLE 3
ORDER OF MAGNITUDE SOIL REMEDIATION COSTS
SUPER SALVAGE, INC., PARCEL AT BUZZARD POINT, SQUARE 0605, LOT 0802
WASHINGTON, D.C.

Recognized Environmental Concern (REC)	Limited Investigation Findings	Potential Impact on Proposed Development	Potential Remedies	Excavation Depth (ft bgs)	Order of Magnitude Opinion of Cost (Range)			
					Cost (\$)	Volume (cubic yards)	Notes	
Oil Layer in AST Secondary Containment (southeast corner of site)	Arsenic and TPH-DRO were detected in soil samples above screening levels ¹ . <u>Sample Locations</u> GTW-605-802-1 GTW-605-802-2 GSS-605-802-12	Soil excavated during construction with metals 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	\$ 57,150	Localized impacted soil with concentrations of TPH-DRO requires off-site disposal (approximately 300 cubic yards) 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.	\$ 202,960	Impacted soil with concentrations of metals and TPH-DRO requires off-site disposal (approximately 1,780 cubic yards). Estimate \$45.00 per ton for transportation and disposal.
				20	\$ 78,520	Localized impacted soil with concentrations of TPH-DRO requires off-site disposal (approximately 600 cubic yards) 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.	\$ 369,600	Impacted soil with concentrations of metals and TPH-DRO requires off-site disposal (approximately 3,600 cubic yards). Dewatering limited to 4,000 gallons pumped to an on-site tank via vacuum truck, removal and disposal as petroleum contaminated water. Estimate \$45.00 per ton for transportation and disposal.
Heavy Concrete Staining	Arsenic was detected in soil above screening levels. <u>Sample Locations</u> GTW-605-802-4 ² GTW-605-802-5 ² GSS-605-802-11	If off-site disposal of excavated soil is required, soil containing metals may require disposal at a permitted landfill.	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	\$ 15,000	Arsenic concentrations in soil may be consistent with background, verifiable with completion of site-specific background metals evaluation. Costs include conducting this evaluation only.	\$ 44,350	Impacted soil with concentrations of metals requires off-site disposal (approximately 150 cubic yards). Estimate \$27.50 per ton for transportation and disposal.
				20	\$ 15,000	Impacted soil with concentrations of metals requires off-site disposal (approximately 300 cubic yards). Dewatering limited to 4,000 gallons pumped to an on-site tank via vacuum truck, removal and disposal as petroleum contaminated water. Estimate \$27.50 per ton for transportation and disposal.	\$ 66,605	
Concrete Staining Beneath AST (northern portion of the site)	Arsenic, lead, ethylbenzene, PCBs, and TPH-DRO were detected in soil samples above screening levels. Also the possibility for the presence of PAHs in soil. <u>Sample Locations</u> GTW-605-802-9 GTW-605-802-10	Soil excavated during construction with metals, VOC, TPH-DRO, and PCB concentrations exceeding screening levels is not appropriate for unrestricted use as fill (may require appropriate treatment/disposal). Elevated detection levels did not allow proper evaluation of PAHs in soil.	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	\$ 57,800	Localized impacted soil with concentrations of VOCs, TPH-DRO, and PCBs requires off-site disposal (approximately 300 cubic yards) 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.	\$ 152,960	Impacted soil with concentrations of metals, VOCs, TPH-DRO, PCBs, and PAHs requires off-site disposal (approximately 1,200 cubic yards). Estimate \$45.00 per ton for transportation and disposal.
				20	\$ 79,690	Localized impacted soil with concentrations of VOCs, TPH-DRO, and PCBs requires off-site disposal (approximately 600 cubic yards) 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.	\$ 270,600	Impacted soil with concentrations of metals, VOCs, TPH-DRO, PCBs, and PAHs requires off-site disposal (approximately 2,400 cubic yards). Dewatering limited to 4,000 gallons pumped to an on-site tank via vacuum truck, removal and disposal as petroleum contaminated water. Estimate \$45.00 per ton for transportation and disposal.

TABLE 3
ORDER OF MAGNITUDE SOIL REMEDIATION COSTS
SUPER SALVAGE, INC., PARCEL AT BUZZARD POINT, SQUARE 0605, LOT 0802
WASHINGTON, D.C.

Recognized Environmental Concern (REC)	Limited Investigation Findings	Potential Impact on Proposed Development	Potential Remedies	Excavation Depth (ft bgs)	Order of Magnitude Opinion of Cost (Range)			
Unlined/Unpaved Sump (southwest corner of site)	Arsenic, lead, PAHs, and TPH-DRO were detected in soil above screening levels. <u>Sample Locations</u> DP-001 DP-002 GTW-605-802-3 ²	Soil excavated during construction with metals, TPH-DRO, and PAH concentrations exceeding screening levels is not appropriate for unrestricted use as fill (may require appropriate treatment/disposal). The presence of PCBs in soil was not evaluated in this area.	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	\$ 51,155	Localized impacted soil with concentrations of TPH-DRO, PAHs, and PCBs requires off-site disposal (approximately 150 cubic yards) and a site-specific background metals evaluation is performed to verify that concentrations of arsenic in soil are within background levels. Estimate \$45.00 per ton for transportation and disposal.	\$ 133,940	Impacted soil with concentrations of metals, TPH-DRO, PCBs, and PAHs requires off-site disposal (approximately 1,000 cubic yards). Estimate \$45.00 per ton for transportation and disposal.
				20	\$ 69,065	Localized impacted soil with concentrations of TPH-DRO, PAHs, and PCBs requires off-site disposal (approximately 300 cubic yards) and a site-specific background metals evaluation is performed to verify that concentrations of arsenic in soil are within background levels. Estimate \$45.00 per ton for transportation and disposal.	\$ 233,475	Impacted soil with concentrations of metals, TPH-DRO, PCBs, and PAHs requires off-site disposal (approximately 2,000 cubic yards). Dewatering limited to 4,000 gallons pumped to an on-site tank via vacuum truck, removal and disposal as petroleum contaminated water. Estimate \$45.00 per ton for transportation and disposal.
Impacts to Adjacent Properties	Arsenic and TPH-DRO were detected in soil samples above screening levels. Also the possibility for the presence of PAHs in soil. <u>Sample Locations</u> GTW-605-802-6 GTW-605-802-7 GTW-605-802-8 ²	Soil excavated during construction with metals, TPH-DRO, and PCB concentrations exceeding screening levels is not appropriate for unrestricted use as fill (may require appropriate treatment/disposal). Elevated detection levels did not allow proper evaluation of PAHs in soil.	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	\$ 57,150	Localized impacted soil with concentrations of TPH-DRO requires off-site disposal (approximately 300 cubic yards) 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.	\$ 151,400	Impacted soil with concentrations of metals, TPH-DRO, and PAHs requires off-site disposal (approximately 1,200 cubic yards). Estimate \$45.00 per ton for transportation and disposal.
				20	\$ 78,520	Localized impacted soil with concentrations of TPH-DRO requires off-site disposal (approximately 600 cubic yards) 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.	\$ 268,000	Impacted soil with concentrations of metals, TPH-DRO, and PAHs requires off-site disposal (approximately 2,400 cubic yards). Dewatering limited to 4,000 gallons pumped to an on-site tank via vacuum truck, removal and disposal as petroleum contaminated water. Estimate \$45.00 per ton for transportation and disposal.
Order of Magnitude Cost Range for Impacts on Proposed Development from Identified RECs:				10	\$ 238,255	to	\$ 1,657,094	High costs include profiling and off-site disposal to the specified depth for the entire site, excluding the office building footprint (i.e., chemicals above screening levels in soil are not just limited to the identified RECs but are prevalent throughout the site).
				20	\$ 320,795		\$ 3,601,688	Dewatering costs include costs to obtain discharge permits and design, install, and maintain treatment system in-line with normal dewatering equipment for up to 3 months.

NOTES

- 1. Screening levels are the lower of the DC Tier 0 Standards and the EPA Regional Screening Levels for industrial soil
- 2. Sample location inaccessible; sample not collected
- ft bgs = feet below ground surface
- AST = aboveground storage tank
- PCB = polychlorinated biphenyl
- TPH = total petroleum hydrocarbons
- TPH-DRO = TPH diesel range
- PAH = polycyclic aromatic hydrocarbon
- VOC = volatile organic compound

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 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 200 square feet of excavation sidewall and 1 sample per 400 square feet of excavation bottom. Analyses based on chemicals exceeding screening levels.

APPENDIX A

Boring Logs

Project Buzzard Point, Washington, DC
 Client McKissack & McKissack
 Contractor Vironex

File No. 40223-002
 Sheet No. 1 of 1
 Start 22 April 2015
 Finish 22 April 2015
 Driller C. Terry/R. Mulford
 H&A Rep. C. Tschibelu

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

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 7	0.0 10.0	4.2	SC	0.5	6.0 IN. THICK CONCRETE											
							Gray brown clayey SAND with gravel (SC), mps 19 mm, no structure, no odor, moist, contains oil staining	15		40	45							
5		2		19.4	SC	5.0	Gray clayey SAND (SC), mps < 1 mm, no structure, no odor, moist, contains oil staining			10	50	40						
10						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)	Rock Cored (ft)
			Bottom of Casing	Bottom of Hole	Water								
												10.0	-
											Boring No.	DP-001	

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
 Client McKissack & McKissack
 Contractor Vironex

File No. 40223-002
 Sheet No. 1 of 1
 Start 22 April 2015
 Finish 22 April 2015
 Driller C. Terry/R. Mulford
 H&A Rep. C. Tschibelu

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

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 20	0.0 10.0	3.8	SC	0.5	6.0 IN. THICK CONCRETE											
							Brown clayey SAND (SC), mps 19 mm, no structure, no odor, moist, contains debris (red bick) and oil staining	10	5	10	45	30						
5		14			SC			5	10	10	45	30						
10						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)	Rock Cored (ft)
			Bottom of Casing	Bottom of Hole	Water								
												10.0	-
											Boring No.	DP-002	

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
 Client McKissack & McKissack
 Contractor Vironex

File No. 40223-002
 Sheet No. 1 of 2
 Start 22 April 2015
 Finish 22 April 2015
 Driller C. Terry/R. Mulford
 H&A Rep. C. Tschibelu

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

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Well Diagram	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION									
								(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)									

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Well Diagram	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION									
								(Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)									
0								1.0 FT THICK OF CONCRETE									
1.0		33		6.2	CL		1.0	Yellow brown sandy lean CLAY with gravel (CL), mps 19 mm, no structure, no odor, moist, contains oil staining at 3.0 ft									
5.0		23		8.1	SM		5.0	Yellow brown and gray silty SAND (SM), mps 4.75 mm, no structure, no odor, moist									
10.0		47		7.4	CL		10.0	Yellow brown and olive sandy lean CLAY (CL), mps <1 mm, no structure, no odor, moist									
15.0		G1 60	15.0 20.0	9.4	CL			Yellow brown									
20.0		60		6.8	CL												

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		Riser Pipe Screen Filter Sand Cuttings Grout Concrete Bentonite Seal	Overburden (ft)	30.0
			Bottom of Casing	Bottom of Hole				Water	Rock Cored (ft)
								Samples	1G

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.

HA-GEOPROBE-09 W/ PID HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT C:\USERS\WINDESKTOP\40223-002\GEO.GPJ 1 Jun 15

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Well Diagram	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test						
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
25		30		5.6	CL															
					SC		27.5	Yellow brown clayey SAND (SC), mps 4.75 mm, no structure, no odor, wet, oil staining at 27.5 ft				60	40							
30							30.0	BOTTOM OF EXPLORATION 30.0 FT												

H&A-GEOPROBE-09 W/ PID HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT C:\USERS\WINDESKTOP\40223-002GEO.GPJ 1 Jun 15

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

Project Buzzard Point, Washington, DC
 Client McKissack & McKissack
 Contractor Vironex

File No. 40223-002
 Sheet No. 1 of 2
 Start 22 April 2015
 Finish 22 April 2015
 Driller C. Terry/R. Mulford
 H&A Rep. C. Tschibelu

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

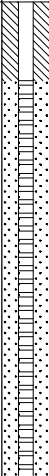
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Well Diagram	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test				
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		32		6.7	SC		1.1	1.0 FT THICK OF CONCRETE										
								Yellow brown clayey SAND with gravel (SC), mps 19 mm, no structure, no odor, moist, trace oil (free product) at 4.0 ft sample	15		5	45	35					
5		G1 26	5.0 10.0	7.6	CL		5.0	Yellow and gray sandy lean CLAY with gravel (CL), mps 19 mm, no structure, no odor, moist, trace oil (free product) at 8.5 ft of sample, contains debris (red brick)	15		5	30	50					
10		54		3.7	CL			Yellow sandy lean CLAY (CL), mps < 1 mm, no structure, no odor, moist				30	70					
15		28		3.0	CL													
20		23		7.7	CL							40	60					

HA-GEOPROBE-09 W/ PID HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT C:\USERS\WINDESKTOP\40223-002\GEO.GPJ 1 Jun 15

Water Level Data				Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod		Riser Pipe	Overburden (ft) 30.0
			Bottom of Casing	Bottom of Hole	Water	T - Thin Wall Tube		Screen	
						U - Undisturbed Sample		Filter Sand	Rock Cored (ft) -
						S - Splitspoon Sample		Cuttings	Samples 1G
						G - Geoprobe		Grout	Boring No. GTW-605- 802-2
								Concrete	
								Bentonite Seal	

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.

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Well Diagram	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test					
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
25		51		1.2	SM		25.0	Yellow brown silty SAND (SM), mps 19 mm, no structure, no odor, wet	10		10	50	30						
30							30.0	BOTTOM OF EXPLORATION 30.0 FT											

H&A-GEOPROBE-09 W/ PID HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT C:\USERS\WINDESKTOP\40223-002GEO.GPJ 1 Jun 15

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

Boring No. GTW-605- 802-2

Project Buzzard Point, Washington, DC
 Client McKissack & McKissack
 Contractor Vironex

File No. 40223-002
 Sheet No. 1 of 2
 Start 9 April 2015
 Finish 9 April 2015
 Driller C. Terry/R. Mulford
 H&A Rep. M. King

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

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Well Diagram	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test			
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity

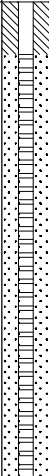
0		46		0.0 0.0	SW SW		0.5	Orange brown well graded SAND (SW), mps 0.75 in., no structure, no odor, wet Black well graded SAND with gravel (SW), mps < 1.5 in., some stratification of brown and gray layers, no odor, dry, fill	10	5	20	40	20	5				
		G1	3.0 5.0															
		24		0.0	SP		4.5	Orange brown poorly graded SAND (SP), mps 0.25 in., no structure, no odor, dry		5	20	50	20	5				
		45		0.0	ML		10.0	Gray poorly graded SILT (ML), mps 0.42 mm, slightly bonded, no odor, moist					10	90				
		60		0.0	CL		12.5	Orange CLAY (CL), mps 0.42 mm, slightly bonded, no odor, moist					10	90				
		60		0.0	CL			Wet around 20.0 ft					5	95				

Water Level Data						Sample ID		Well Diagram			Summary							
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod	T - Thin Wall Tube		Screen		Cuttings	Grout	Concrete	Bentonite Seal	Overburden (ft)	Rock Cored (ft)	Samples	1G
			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.

HA-GEOPROBE-09 W/ PID HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT C:\USERS\WINDESKTOP\40223-002\GEO.GPJ 1 Jun 15

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Well Diagram	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test					
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
25		60		0.0	CL		30.0												
30								BOTTOM OF EXPLORATION 30.0 FT											

H&A-GEOPROBE-09 W/ PID HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT C:\USERS\WINDESKTOP\40223-002GEO.GPJ 1 Jun 15

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

Project Buzzard Point, Washington, DC
 Client McKissack & McKissack
 Contractor Vironex

File No. 40223-002
 Sheet No. 1 of 2
 Start 10 April 2015
 Finish 10 April 2015
 Driller C. Terry/R. Mulford
 H&A Rep. M. King

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

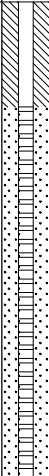
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Well Diagram	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test				
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		25		0.0	SP		0.5	Orange poorly graded SAND (SP), mps 0.5 in., no stratification, no odor, wet	5	10	10	65	10					
				0.0	SP		1.0	White sand/broken concrete 1.0 in. thick, dry Black poorly graded SAND (SP), mps 1.0 in., some stratified layers up to 1/4 in. thick, no odor, dry, waste fill	5	5	10	70	10					
5		G1 40	5.0 8.0	0.0	SP			Layers of pieces of brick (up to 0.75 in. in size), about 1.0 in. thick at 7.5 ft and 9.5 ft bgs	5	5	15	65	10					
10		40		0.0	ML		10.0	Gray poorly graded SILT (ML), mps 0.42 mm, slightly bonded, no odor, moist					10	90				
				0.0	CL		12.5	Orange CLAY (CL), mps 0.42 mm, slightly bonded, no odor, moist						10	90			
20		12		0.0	CL									5	95			

HA-GEOPROBE-09 W/ PID HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT C:\USERS\WINDESKTOP\40223-002\GEO.GPJ 1 Jun 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) 30.0		Rock Cored (ft) -		
			Bottom of Casing	Bottom of Hole	Water			Samples 1G		Boring No. GTW-605- 802-7		

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.

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Well Diagram	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test					
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
25		0					30.0	Wet approximately 22.0 ft No recovery 25.0 ft to 30.0 ft											
30								BOTTOM OF EXPLORATION 30.0 FT											

H&A-GEOPROBE-09 W/ PID HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT C:\USERS\WINDESKTOP\40223-002GEO.GPJ 1 Jun 15

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

Project Buzzard Point, Washington, DC
 Client McKissack & McKissack
 Contractor Vironex

File No. 40223-002
 Sheet No. 1 of 2
 Start 9 April 2015
 Finish 9 April 2015
 Driller C. Terry/R. Mulford
 H&A Rep. M. King

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

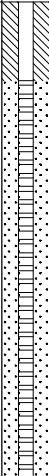
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Well Diagram	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test			
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity

0		29						ROCK AND DEBRIS											
				11.8	SP		2.0	-CONCRETE-											
		G1	3.0 5.0				2.5	Dark brown poorly graded SAND (SP), mps 2 mm, no structure, slight petroleum odor, moist			45	50	5						
5		28		1.4	SP			Some gravel, mps 0.25 in.	5	5	45	40	5						
10		44		0.0	ML		10.0	Gray poorly graded SILT (ML), mps 0.42 mm, slightly bonded, no odor, moist					10	90					
				0.0	CL		12.5	Orange poorly graded CLAY (CL), mps 0.42 mm, well bonded, no odor, moist					5	95					
15		59																	
								Wet approximately 18.0 ft to 20.0 ft											
20		48		0.0	CL														

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							
											30.0	-
											1G	

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.

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Well Diagram	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test					
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
25		59		0.0	CL		30.0												
30								BOTTOM OF EXPLORATION 30.0 FT											

H&A-GEOPROBE-09 W/ PID HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT C:\USERS\WINDESKTOP\40223-002GEO.GPJ 1 Jun 15

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


Project Buzzard Point, Washington, DC
 Client McKissack & McKissack
 Contractor Vironex

File No. 40223-002
 Sheet No. 1 of 2
 Start 21 April 2015
 Finish 21 April 2015
 Driller C. Terry/R. Mulford
 H&A Rep. C. Tschibelu

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

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		22					ROCK AND DEBRIS											
		G1	1.5 5.0	49.0	ML	1.5	Gray brown sandy SILT with gravel (ML), mps 19 mm, no structure, no odor, moist	5	20	5	30	40						
5		8		0.3	CL	5.0	Gray sandy lean CLAY with gravel (CL), mps 19 mm, no structure, no odor, moist, contains oil (free product)	5	15	10	30	50						
10		50		2.2	CL	10.0	Gray lean CLAY with sand (CL), mps < 1 mm, no structure, no odor, wet, contains oil (free product)					25	75					
15		60		5.2	CL	15.0	Gray (upper 3.0 ft) and yellow brown lean CLAY with sand (CL), mps < 1 mm, no structure, no odor, moist, contains oil on the upper 3.0 ft					15	85					
20		60		3.2	CL	20.0	Yellow brown sandy lean CLAY (CL), mps < 1 mm, no structure, no odor, moist					10	90					

HA-GEOPROBE-09 W/ PID HA-LIB-09.GLB HA-TB+CORE+WELL-07-1.GDT C:\USERS\WINDESKTOP\40223-002GEO.GPJ 1 Jun 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		Riser Pipe	Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal
			Bottom of Casing	Bottom of Hole	Water									
										Overburden (ft)	30.0			
										Rock Cored (ft)	-			
										Samples	1G			
										Boring No. GSS-605- 802-10				

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.

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
25		42		5.6	CL				10		30	60						
		18		2.0	SC	28.5	Yellow brown clayey SAND (SC), mps 19 mm, no structure, no odor, wet	5	10		55	30						
30						30.0	BOTTOM OF EXPLORATION 30.0 FT											

H&A-GEOPROBE-09 W/ PID HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT C:\USERS\WLN\DESKTOP\40223-002GEO.GPJ 1 Jun 15

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

Boring No. GSS-605- 802-10

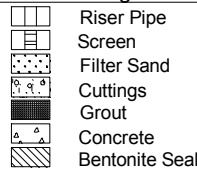
Project Buzzard Point, Washington, DC
 Client McKissack & McKissack
 Contractor Vironex

File No. 40223-002
 Sheet No. 1 of 1
 Start 22 April 2015
 Finish 22 April 2015
 Driller C. Terry/R. Mulford
 H&A Rep. C. Tschibelu

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

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity

0		18		8.5	SM	1.0	12.0 IN. THICK OF CONCRETE											
							Light gray and brown silty SAND with gravel (SM), mps 19 mm, no structure, no odor, dry	5	25	5	35	30						
5		13		3.1	GM	5.0	Tan and gray silty GRAVEL with sand (GM), mps 19 mm, no structure, no odor, moist	10	40		35	15						
10		G1 54	10.0 15.0	8.2	ML	10.0	Yellow sandy SILT (ML), mps < 1 mm, no structure, no odor, moist				35	65						
15						15.0	BOTTOM OF EXPLORATION 15.0 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)	Rock Cored (ft)	Samples
			Bottom of Casing	Bottom of Hole	Water									
												Boring No. GSS-605- 802-11		

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.

HA-GEOPROBE-09 W/ PID HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT C:\USERS\WINDESKTOP\40223-002\GEO.GPJ 1 Jun 15

Project Buzzard Point, Washington, DC
 Client McKissack & McKissack
 Contractor Vironex

File No. 40223-002
 Sheet No. 1 of 1
 Start 22 April 2015
 Finish 22 April 2015
 Driller C. Terry/R. Mulford
 H&A Rep. C. Tschibelu

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

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	PID Readings (ppm)	USCS Symbol	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity

0		0				0.2	3.0 IN. ASPHALT											
							4.8 ft of concrete mixed with debris (ASPHALT)											
5		14		3.1	SC	4.8	Gray clayey SAND with gravel (SC), mps 19 mm, no structure, no odor, moist, contains oil staining	15		10	40	35						
10		G1 60	10.0 12.5	9.3	CL	10.0	Yellow brown sandy lean CLAY (CL), mps < 1 mm, no structure, no odor, moist					30	70					
		G2	12.5 15.0															
15						15.0	BOTTOM OF EXPLORATION 15.0 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	[] Riser Pipe	[] Screen	[] Filter Sand	[] Cuttings	[] Grout	[] Concrete	[] Bentonite Seal	Overburden (ft)	Rock Cored (ft)	Samples
			Bottom of Casing	Bottom of Hole	Water												
														15.0	-	2G	

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.

HA-GEOPROBE-09 W/ PID HA-LIB09.GLB HA-TB+CORE+WELL-07-1.GDT C:\USERS\WINDESKTOP\40223-002\GEO.GPJ 1 Jun 15

APPENDIX B

Laboratory Analytical Reports

May 27, 2015

Dana Kennard
Haley & Aldrich, Inc

RE: Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245059

Dear Dana Kennard:

Enclosed are the analytical results for sample(s) received by the laboratory on April 10, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This report was revised to report down to the MDL for all parameters.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Nicole Benjamin
nicole.benjamin@pacelabs.com
Project Manager

Enclosures

cc: Karin Holland
Pam Minor



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92245059001	GTW-605-802-9-1	Solid	04/09/15 09:00	04/10/15 10:00
92245059002	GTW-605-802-6-1	Solid	04/09/15 13:15	04/10/15 10:00

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SAMPLE ANALYTE COUNT

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92245059001	GTW-605-802-9-1	EPA 8015 Modified	CMI	2	PASI-C
		EPA 8015 Modified	CMI	2	PASI-C
		EPA 8082	RES	8	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		EPA 7471	HVK	1	PASI-A
		EPA 8270	RES	21	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	EJK	1	PASI-C
92245059002	GTW-605-802-6-1	EPA 8015 Modified	CMI	2	PASI-C
		EPA 8015 Modified	CMI	2	PASI-C
		EPA 8082	RES	8	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		EPA 7471	HVK	1	PASI-A
		EPA 8270	RES	21	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	EJK	1	PASI-C

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92245059001	GTW-605-802-9-1					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	3260	mg/kg	116	04/19/15 22:48	
EPA 8015 Modified	Oil Range Organics (C28-C40)	6590	mg/kg	348	04/19/15 18:49	
EPA 8082	PCB-1242 (Aroclor 1242)	2280	ug/kg	383	04/17/15 00:50	
EPA 8082	PCB-1260 (Aroclor 1260)	2010	ug/kg	383	04/17/15 00:50	
EPA 6010	Aluminum	4860	mg/kg	10.7	04/20/15 14:03	M1
EPA 6010	Antimony	3.2	mg/kg	0.54	04/20/15 14:03	M1
EPA 6010	Arsenic	14.8	mg/kg	1.1	04/20/15 14:03	
EPA 6010	Barium	246	mg/kg	0.54	04/20/15 14:03	M1
EPA 6010	Beryllium	0.37	mg/kg	0.11	04/20/15 14:03	
EPA 6010	Cadmium	2.1	mg/kg	0.11	04/20/15 14:03	
EPA 6010	Calcium	9020	mg/kg	10.7	04/20/15 14:03	M1
EPA 6010	Chromium	19.4	mg/kg	0.54	04/20/15 14:03	M1
EPA 6010	Cobalt	5.8	mg/kg	0.54	04/20/15 14:03	
EPA 6010	Copper	104	mg/kg	0.54	04/20/15 14:03	
EPA 6010	Iron	24100	mg/kg	215	04/20/15 14:18	M6
EPA 6010	Lead	475	mg/kg	0.54	04/20/15 14:03	M1
EPA 6010	Magnesium	1500	mg/kg	10.7	04/20/15 14:03	M1
EPA 6010	Manganese	297	mg/kg	0.54	04/20/15 14:03	M1
EPA 6010	Nickel	15.3	mg/kg	0.54	04/20/15 14:03	
EPA 6010	Potassium	790	mg/kg	537	04/20/15 14:03	
EPA 6010	Silver	0.87	mg/kg	0.54	04/20/15 14:03	
EPA 6010	Sodium	399J	mg/kg	537	04/20/15 14:03	
EPA 6010	Vanadium	21.1	mg/kg	0.54	04/20/15 14:03	
EPA 6010	Zinc	371	mg/kg	1.1	04/20/15 14:03	M1
EPA 7471	Mercury	0.19	mg/kg	0.045	04/17/15 13:00	M6
EPA 8270	Fluoranthene	5560J	ug/kg	19100	04/17/15 00:49	
EPA 8270	Phenanthrene	4190J	ug/kg	19100	04/17/15 00:49	
EPA 8270	Pyrene	4900J	ug/kg	19100	04/17/15 00:49	L2
EPA 8260	2-Butanone (MEK)	444J	ug/kg	2830	04/14/15 00:02	
EPA 8260	n-Butylbenzene	169	ug/kg	141	04/14/15 00:02	
EPA 8260	sec-Butylbenzene	75.0J	ug/kg	141	04/14/15 00:02	
EPA 8260	Ethylbenzene	114J	ug/kg	141	04/14/15 00:02	
EPA 8260	Isopropylbenzene (Cumene)	64.2J	ug/kg	141	04/14/15 00:02	
EPA 8260	p-Isopropyltoluene	270	ug/kg	141	04/14/15 00:02	
EPA 8260	Naphthalene	730	ug/kg	141	04/14/15 00:02	
EPA 8260	n-Propylbenzene	125J	ug/kg	141	04/14/15 00:02	
EPA 8260	Toluene	118J	ug/kg	141	04/14/15 00:02	
EPA 8260	Trichlorofluoromethane	119J	ug/kg	141	04/14/15 00:02	
EPA 8260	1,2,4-Trimethylbenzene	1980	ug/kg	141	04/14/15 00:02	
EPA 8260	1,3,5-Trimethylbenzene	847	ug/kg	141	04/14/15 00:02	
EPA 8260	Xylene (Total)	657	ug/kg	283	04/14/15 00:02	
EPA 8260	m&p-Xylene	328	ug/kg	283	04/14/15 00:02	
EPA 8260	o-Xylene	329	ug/kg	141	04/14/15 00:02	
ASTM D2974-87	Percent Moisture	13.8	%	0.10	04/14/15 17:15	
92245059002	GTW-605-802-6-1					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	124	mg/kg	6.0	04/18/15 06:34	
EPA 8015 Modified	Oil Range Organics (C28-C40)	344	mg/kg	18.1	04/16/15 23:01	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92245059002	GTW-605-802-6-1					
EPA 6010	Aluminum	3030	mg/kg	11.0	04/20/15 14:12	
EPA 6010	Antimony	1.1	mg/kg	0.55	04/20/15 14:12	
EPA 6010	Arsenic	12.7	mg/kg	1.1	04/20/15 14:12	
EPA 6010	Barium	106	mg/kg	0.55	04/20/15 14:12	
EPA 6010	Beryllium	0.42	mg/kg	0.11	04/20/15 14:12	
EPA 6010	Cadmium	0.18	mg/kg	0.11	04/20/15 14:12	
EPA 6010	Calcium	4670	mg/kg	11.0	04/20/15 14:12	
EPA 6010	Chromium	6.0	mg/kg	0.55	04/20/15 14:12	
EPA 6010	Cobalt	3.3	mg/kg	0.55	04/20/15 14:12	
EPA 6010	Copper	55.3	mg/kg	0.55	04/20/15 14:12	
EPA 6010	Iron	7130	mg/kg	11.0	04/20/15 14:12	
EPA 6010	Lead	302	mg/kg	0.55	04/20/15 14:12	
EPA 6010	Magnesium	335	mg/kg	11.0	04/20/15 14:12	
EPA 6010	Manganese	73.1	mg/kg	0.55	04/20/15 14:12	
EPA 6010	Nickel	8.3	mg/kg	0.55	04/20/15 14:12	
EPA 6010	Silver	0.32J	mg/kg	0.55	04/20/15 14:12	
EPA 6010	Vanadium	13.6	mg/kg	0.55	04/20/15 14:12	
EPA 6010	Zinc	76.5	mg/kg	1.1	04/20/15 14:12	
EPA 7471	Mercury	0.12	mg/kg	0.0049	04/17/15 11:49	
EPA 8260	Naphthalene	3.8J	ug/kg	7.4	04/14/15 00:22	
ASTM D2974-87	Percent Moisture	17.3	%	0.10	04/14/15 17:15	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

Sample: GTW-605-802-9-1 **Lab ID: 92245059001** Collected: 04/09/15 09:00 Received: 04/10/15 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	3260	mg/kg	116	104	20	04/14/15 09:32	04/19/15 22:48		
Surrogates									
n-Pentacosane (S)	0	%	41-119		20	04/14/15 09:32	04/19/15 22:48	629-99-2	S4
8015 GCS THC-ORO									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Oil Range Organics (C28-C40)	6590	mg/kg	348	255	20	04/15/15 18:12	04/19/15 18:49		
Surrogates									
n-Pentacosane (S)	0	%	41-119		20	04/15/15 18:12	04/19/15 18:49	629-99-2	S4
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	383	174	10	04/15/15 23:28	04/17/15 00:50	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	383	174	10	04/15/15 23:28	04/17/15 00:50	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	383	174	10	04/15/15 23:28	04/17/15 00:50	11141-16-5	
PCB-1242 (Aroclor 1242)	2280	ug/kg	383	174	10	04/15/15 23:28	04/17/15 00:50	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	383	174	10	04/15/15 23:28	04/17/15 00:50	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	383	174	10	04/15/15 23:28	04/17/15 00:50	11097-69-1	
PCB-1260 (Aroclor 1260)	2010	ug/kg	383	174	10	04/15/15 23:28	04/17/15 00:50	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	0	%	21-132		10	04/15/15 23:28	04/17/15 00:50	2051-24-3	D3,S4
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	6.9	6.9	1	04/13/15 12:03	04/14/15 09:35		
Surrogates									
4-Bromofluorobenzene (S)	118	%	70-167		1	04/13/15 12:03	04/14/15 09:35	460-00-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	4860	mg/kg	10.7	5.4	1	04/16/15 16:00	04/20/15 14:03	7429-90-5	M1
Antimony	3.2	mg/kg	0.54	0.42	1	04/16/15 16:00	04/20/15 14:03	7440-36-0	M1
Arsenic	14.8	mg/kg	1.1	0.54	1	04/16/15 16:00	04/20/15 14:03	7440-38-2	
Barium	246	mg/kg	0.54	0.27	1	04/16/15 16:00	04/20/15 14:03	7440-39-3	M1
Beryllium	0.37	mg/kg	0.11	0.054	1	04/16/15 16:00	04/20/15 14:03	7440-41-7	
Cadmium	2.1	mg/kg	0.11	0.054	1	04/16/15 16:00	04/20/15 14:03	7440-43-9	
Calcium	9020	mg/kg	10.7	5.4	1	04/16/15 16:00	04/20/15 14:03	7440-70-2	M1
Chromium	19.4	mg/kg	0.54	0.27	1	04/16/15 16:00	04/20/15 14:03	7440-47-3	M1
Cobalt	5.8	mg/kg	0.54	0.27	1	04/16/15 16:00	04/20/15 14:03	7440-48-4	
Copper	104	mg/kg	0.54	0.27	1	04/16/15 16:00	04/20/15 14:03	7440-50-8	
Iron	24100	mg/kg	215	107	20	04/16/15 16:00	04/20/15 14:18	7439-89-6	M6
Lead	475	mg/kg	0.54	0.27	1	04/16/15 16:00	04/20/15 14:03	7439-92-1	M1
Magnesium	1500	mg/kg	10.7	0.27	1	04/16/15 16:00	04/20/15 14:03	7439-95-4	M1
Manganese	297	mg/kg	0.54	0.27	1	04/16/15 16:00	04/20/15 14:03	7439-96-5	M1
Nickel	15.3	mg/kg	0.54	0.27	1	04/16/15 16:00	04/20/15 14:03	7440-02-0	
Potassium	790	mg/kg	537	537	1	04/16/15 16:00	04/20/15 14:03	7440-09-7	
Selenium	ND	mg/kg	1.1	0.54	1	04/16/15 16:00	04/20/15 14:03	7782-49-2	
Silver	0.87	mg/kg	0.54	0.27	1	04/16/15 16:00	04/20/15 14:03	7440-22-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

Sample: **GTW-605-802-9-1** Lab ID: **92245059001** Collected: 04/09/15 09:00 Received: 04/10/15 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Sodium	399J	mg/kg	537	268	1	04/16/15 16:00	04/20/15 14:03	7440-23-5	
Thallium	ND	mg/kg	1.1	0.54	1	04/16/15 16:00	04/20/15 14:03	7440-28-0	
Vanadium	21.1	mg/kg	0.54	0.27	1	04/16/15 16:00	04/20/15 14:03	7440-62-2	
Zinc	371	mg/kg	1.1	0.54	1	04/16/15 16:00	04/20/15 14:03	7440-66-6	M1
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.19	mg/kg	0.045	0.00089	10	04/16/15 15:10	04/17/15 13:00	7439-97-6	M6
8270 MSSV PAH Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	19100	4410	10	04/14/15 14:15	04/17/15 00:49	83-32-9	
Acenaphthylene	ND	ug/kg	19100	4520	10	04/14/15 14:15	04/17/15 00:49	208-96-8	
Anthracene	ND	ug/kg	19100	4290	10	04/14/15 14:15	04/17/15 00:49	120-12-7	
Benzo(a)anthracene	ND	ug/kg	19100	3540	10	04/14/15 14:15	04/17/15 00:49	56-55-3	
Benzo(a)pyrene	ND	ug/kg	19100	3650	10	04/14/15 14:15	04/17/15 00:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	19100	3310	10	04/14/15 14:15	04/17/15 00:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	19100	4870	10	04/14/15 14:15	04/17/15 00:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	19100	3770	10	04/14/15 14:15	04/17/15 00:49	207-08-9	
Chrysene	ND	ug/kg	19100	2550	10	04/14/15 14:15	04/17/15 00:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	19100	4060	10	04/14/15 14:15	04/17/15 00:49	53-70-3	
Fluoranthene	5560J	ug/kg	19100	2780	10	04/14/15 14:15	04/17/15 00:49	206-44-0	
Fluorene	ND	ug/kg	19100	3940	10	04/14/15 14:15	04/17/15 00:49	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	19100	3940	10	04/14/15 14:15	04/17/15 00:49	193-39-5	
1-Methylnaphthalene	ND	ug/kg	19100	4990	10	04/14/15 14:15	04/17/15 00:49	90-12-0	
2-Methylnaphthalene	ND	ug/kg	19100	4120	10	04/14/15 14:15	04/17/15 00:49	91-57-6	
Naphthalene	ND	ug/kg	19100	4700	10	04/14/15 14:15	04/17/15 00:49	91-20-3	
Phenanthrene	4190J	ug/kg	19100	3190	10	04/14/15 14:15	04/17/15 00:49	85-01-8	
Pyrene	4900J	ug/kg	19100	3250	10	04/14/15 14:15	04/17/15 00:49	129-00-0	L2
Surrogates									
Nitrobenzene-d5 (S)	0	%	23-110		10	04/14/15 14:15	04/17/15 00:49	4165-60-0	D3,P3, S4
2-Fluorobiphenyl (S)	0	%	30-110		10	04/14/15 14:15	04/17/15 00:49	321-60-8	S4
Terphenyl-d14 (S)	0	%	28-110		10	04/14/15 14:15	04/17/15 00:49	1718-51-0	S4
8260/5035A Volatile Organics Analytical Method: EPA 8260									
Acetone	ND	ug/kg	2830	283	25		04/14/15 00:02	67-64-1	
Benzene	ND	ug/kg	141	45.2	25		04/14/15 00:02	71-43-2	
Bromobenzene	ND	ug/kg	141	56.5	25		04/14/15 00:02	108-86-1	
Bromochloromethane	ND	ug/kg	141	48.0	25		04/14/15 00:02	74-97-5	
Bromodichloromethane	ND	ug/kg	141	53.7	25		04/14/15 00:02	75-27-4	
Bromoform	ND	ug/kg	141	65.0	25		04/14/15 00:02	75-25-2	
Bromomethane	ND	ug/kg	283	70.6	25		04/14/15 00:02	74-83-9	
2-Butanone (MEK)	444J	ug/kg	2830	81.9	25		04/14/15 00:02	78-93-3	
n-Butylbenzene	169	ug/kg	141	50.9	25		04/14/15 00:02	104-51-8	
sec-Butylbenzene	75.0J	ug/kg	141	45.2	25		04/14/15 00:02	135-98-8	
tert-Butylbenzene	ND	ug/kg	141	56.5	25		04/14/15 00:02	98-06-6	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

Sample: **GTW-605-802-9-1** Lab ID: **92245059001** Collected: 04/09/15 09:00 Received: 04/10/15 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Carbon tetrachloride	ND	ug/kg	141	73.5	25		04/14/15 00:02	56-23-5	
Chlorobenzene	ND	ug/kg	141	53.7	25		04/14/15 00:02	108-90-7	
Chloroethane	ND	ug/kg	283	67.8	25		04/14/15 00:02	75-00-3	
Chloroform	ND	ug/kg	141	45.2	25		04/14/15 00:02	67-66-3	
Chloromethane	ND	ug/kg	283	67.8	25		04/14/15 00:02	74-87-3	
2-Chlorotoluene	ND	ug/kg	141	48.0	25		04/14/15 00:02	95-49-8	
4-Chlorotoluene	ND	ug/kg	141	50.9	25		04/14/15 00:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	141	102	25		04/14/15 00:02	96-12-8	
Dibromochloromethane	ND	ug/kg	141	50.9	25		04/14/15 00:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	141	50.9	25		04/14/15 00:02	106-93-4	
Dibromomethane	ND	ug/kg	141	70.6	25		04/14/15 00:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	141	53.7	25		04/14/15 00:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	141	56.5	25		04/14/15 00:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	141	48.0	25		04/14/15 00:02	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	283	102	25		04/14/15 00:02	75-71-8	
1,1-Dichloroethane	ND	ug/kg	141	42.4	25		04/14/15 00:02	75-34-3	
1,2-Dichloroethane	ND	ug/kg	141	62.2	25		04/14/15 00:02	107-06-2	
1,1-Dichloroethene	ND	ug/kg	141	50.9	25		04/14/15 00:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	141	39.6	25		04/14/15 00:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	141	53.7	25		04/14/15 00:02	156-60-5	
1,2-Dichloropropane	ND	ug/kg	141	48.0	25		04/14/15 00:02	78-87-5	
1,3-Dichloropropane	ND	ug/kg	141	53.7	25		04/14/15 00:02	142-28-9	
2,2-Dichloropropane	ND	ug/kg	141	48.0	25		04/14/15 00:02	594-20-7	
1,1-Dichloropropene	ND	ug/kg	141	42.4	25		04/14/15 00:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	141	50.9	25		04/14/15 00:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	141	42.4	25		04/14/15 00:02	10061-02-6	
Diisopropyl ether	ND	ug/kg	141	48.0	25		04/14/15 00:02	108-20-3	
Ethylbenzene	114J	ug/kg	141	50.9	25		04/14/15 00:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	141	56.5	25		04/14/15 00:02	87-68-3	
2-Hexanone	ND	ug/kg	1410	110	25		04/14/15 00:02	591-78-6	
Isopropylbenzene (Cumene)	64.2J	ug/kg	141	53.7	25		04/14/15 00:02	98-82-8	
p-Isopropyltoluene	270	ug/kg	141	48.0	25		04/14/15 00:02	99-87-6	
Methylene Chloride	ND	ug/kg	565	84.8	25		04/14/15 00:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1410	105	25		04/14/15 00:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	141	42.4	25		04/14/15 00:02	1634-04-4	
Naphthalene	730	ug/kg	141	33.9	25		04/14/15 00:02	91-20-3	
n-Propylbenzene	125J	ug/kg	141	48.0	25		04/14/15 00:02	103-65-1	
Styrene	ND	ug/kg	141	50.9	25		04/14/15 00:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	141	59.3	25		04/14/15 00:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	141	53.7	25		04/14/15 00:02	79-34-5	
Tetrachloroethene	ND	ug/kg	141	48.0	25		04/14/15 00:02	127-18-4	
Toluene	118J	ug/kg	141	50.9	25		04/14/15 00:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	141	62.2	25		04/14/15 00:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	141	45.2	25		04/14/15 00:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	141	50.9	25		04/14/15 00:02	71-55-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

Sample: GTW-605-802-9-1 **Lab ID: 92245059001** Collected: 04/09/15 09:00 Received: 04/10/15 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
1,1,2-Trichloroethane	ND	ug/kg	141	59.3	25		04/14/15 00:02	79-00-5	
Trichloroethene	ND	ug/kg	141	59.3	25		04/14/15 00:02	79-01-6	
Trichlorofluoromethane	119J	ug/kg	141	62.2	25		04/14/15 00:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	141	45.2	25		04/14/15 00:02	96-18-4	
1,2,4-Trimethylbenzene	1980	ug/kg	141	56.5	25		04/14/15 00:02	95-63-6	
1,3,5-Trimethylbenzene	847	ug/kg	141	50.9	25		04/14/15 00:02	108-67-8	
Vinyl acetate	ND	ug/kg	1410	249	25		04/14/15 00:02	108-05-4	
Vinyl chloride	ND	ug/kg	283	50.9	25		04/14/15 00:02	75-01-4	
Xylene (Total)	657	ug/kg	283	102	25		04/14/15 00:02	1330-20-7	
m&p-Xylene	328	ug/kg	283	102	25		04/14/15 00:02	179601-23-1	
o-Xylene	329	ug/kg	141	53.7	25		04/14/15 00:02	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		25		04/14/15 00:02	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		25		04/14/15 00:02	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-132		25		04/14/15 00:02	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	13.8	%	0.10	0.10	1		04/14/15 17:15		

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245059

Sample: GTW-605-802-6-1 **Lab ID: 92245059002** Collected: 04/09/15 13:15 Received: 04/10/15 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	124	mg/kg	6.0	5.4	1	04/14/15 09:32	04/18/15 06:34		
Surrogates									
n-Pentacosane (S)	84	%	41-119		1	04/14/15 09:32	04/18/15 06:34	629-99-2	
8015 GCS THC-ORO									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Oil Range Organics (C28-C40)	344	mg/kg	18.1	13.3	1	04/15/15 18:12	04/16/15 23:01		
Surrogates									
n-Pentacosane (S)	92	%	41-119		1	04/15/15 18:12	04/16/15 23:01	629-99-2	
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	39.9	18.1	1	04/15/15 23:28	04/17/15 01:11	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	39.9	18.1	1	04/15/15 23:28	04/17/15 01:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	39.9	18.1	1	04/15/15 23:28	04/17/15 01:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	39.9	18.1	1	04/15/15 23:28	04/17/15 01:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	39.9	18.1	1	04/15/15 23:28	04/17/15 01:11	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	39.9	18.1	1	04/15/15 23:28	04/17/15 01:11	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	39.9	18.1	1	04/15/15 23:28	04/17/15 01:11	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	38	%	21-132		1	04/15/15 23:28	04/17/15 01:11	2051-24-3	
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	7.3	7.3	1	04/13/15 12:03	04/14/15 09:57		
Surrogates									
4-Bromofluorobenzene (S)	116	%	70-167		1	04/13/15 12:03	04/14/15 09:57	460-00-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	3030	mg/kg	11.0	5.5	1	04/16/15 16:00	04/20/15 14:12	7429-90-5	
Antimony	1.1	mg/kg	0.55	0.43	1	04/16/15 16:00	04/20/15 14:12	7440-36-0	
Arsenic	12.7	mg/kg	1.1	0.55	1	04/16/15 16:00	04/20/15 14:12	7440-38-2	
Barium	106	mg/kg	0.55	0.27	1	04/16/15 16:00	04/20/15 14:12	7440-39-3	
Beryllium	0.42	mg/kg	0.11	0.055	1	04/16/15 16:00	04/20/15 14:12	7440-41-7	
Cadmium	0.18	mg/kg	0.11	0.055	1	04/16/15 16:00	04/20/15 14:12	7440-43-9	
Calcium	4670	mg/kg	11.0	5.5	1	04/16/15 16:00	04/20/15 14:12	7440-70-2	
Chromium	6.0	mg/kg	0.55	0.27	1	04/16/15 16:00	04/20/15 14:12	7440-47-3	
Cobalt	3.3	mg/kg	0.55	0.27	1	04/16/15 16:00	04/20/15 14:12	7440-48-4	
Copper	55.3	mg/kg	0.55	0.27	1	04/16/15 16:00	04/20/15 14:12	7440-50-8	
Iron	7130	mg/kg	11.0	5.5	1	04/16/15 16:00	04/20/15 14:12	7439-89-6	
Lead	302	mg/kg	0.55	0.27	1	04/16/15 16:00	04/20/15 14:12	7439-92-1	
Magnesium	335	mg/kg	11.0	0.27	1	04/16/15 16:00	04/20/15 14:12	7439-95-4	
Manganese	73.1	mg/kg	0.55	0.27	1	04/16/15 16:00	04/20/15 14:12	7439-96-5	
Nickel	8.3	mg/kg	0.55	0.27	1	04/16/15 16:00	04/20/15 14:12	7440-02-0	
Potassium	ND	mg/kg	550	550	1	04/16/15 16:00	04/20/15 14:12	7440-09-7	
Selenium	ND	mg/kg	1.1	0.55	1	04/16/15 16:00	04/20/15 14:12	7782-49-2	
Silver	0.32J	mg/kg	0.55	0.27	1	04/16/15 16:00	04/20/15 14:12	7440-22-4	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

Sample: GTW-605-802-6-1 **Lab ID:** 92245059002 Collected: 04/09/15 13:15 Received: 04/10/15 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Sodium	ND	mg/kg	550	275	1	04/16/15 16:00	04/20/15 14:12	7440-23-5	
Thallium	ND	mg/kg	1.1	0.55	1	04/16/15 16:00	04/20/15 14:12	7440-28-0	
Vanadium	13.6	mg/kg	0.55	0.27	1	04/16/15 16:00	04/20/15 14:12	7440-62-2	
Zinc	76.5	mg/kg	1.1	0.55	1	04/16/15 16:00	04/20/15 14:12	7440-66-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.12	mg/kg	0.0049	0.000098	1	04/16/15 15:10	04/17/15 11:49	7439-97-6	
8270 MSSV PAH Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	20000	4600	10	04/14/15 14:15	04/17/15 01:16	83-32-9	
Acenaphthylene	ND	ug/kg	20000	4720	10	04/14/15 14:15	04/17/15 01:16	208-96-8	
Anthracene	ND	ug/kg	20000	4470	10	04/14/15 14:15	04/17/15 01:16	120-12-7	
Benzo(a)anthracene	ND	ug/kg	20000	3690	10	04/14/15 14:15	04/17/15 01:16	56-55-3	
Benzo(a)pyrene	ND	ug/kg	20000	3810	10	04/14/15 14:15	04/17/15 01:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	20000	3450	10	04/14/15 14:15	04/17/15 01:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	20000	5080	10	04/14/15 14:15	04/17/15 01:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	20000	3930	10	04/14/15 14:15	04/17/15 01:16	207-08-9	
Chrysene	ND	ug/kg	20000	2660	10	04/14/15 14:15	04/17/15 01:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	20000	4230	10	04/14/15 14:15	04/17/15 01:16	53-70-3	
Fluoranthene	ND	ug/kg	20000	2900	10	04/14/15 14:15	04/17/15 01:16	206-44-0	
Fluorene	ND	ug/kg	20000	4110	10	04/14/15 14:15	04/17/15 01:16	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	20000	4110	10	04/14/15 14:15	04/17/15 01:16	193-39-5	
1-Methylnaphthalene	ND	ug/kg	20000	5200	10	04/14/15 14:15	04/17/15 01:16	90-12-0	
2-Methylnaphthalene	ND	ug/kg	20000	4290	10	04/14/15 14:15	04/17/15 01:16	91-57-6	
Naphthalene	ND	ug/kg	20000	4900	10	04/14/15 14:15	04/17/15 01:16	91-20-3	
Phenanthrene	ND	ug/kg	20000	3330	10	04/14/15 14:15	04/17/15 01:16	85-01-8	
Pyrene	ND	ug/kg	20000	3390	10	04/14/15 14:15	04/17/15 01:16	129-00-0	L2
Surrogates									
Nitrobenzene-d5 (S)	0	%	23-110		10	04/14/15 14:15	04/17/15 01:16	4165-60-0	D3,P3, S4
2-Fluorobiphenyl (S)	0	%	30-110		10	04/14/15 14:15	04/17/15 01:16	321-60-8	S4
Terphenyl-d14 (S)	0	%	28-110		10	04/14/15 14:15	04/17/15 01:16	1718-51-0	S4
8260/5035A Volatile Organics Analytical Method: EPA 8260									
Acetone	ND	ug/kg	148	14.8	1		04/14/15 00:22	67-64-1	
Benzene	ND	ug/kg	7.4	2.4	1		04/14/15 00:22	71-43-2	
Bromobenzene	ND	ug/kg	7.4	3.0	1		04/14/15 00:22	108-86-1	
Bromochloromethane	ND	ug/kg	7.4	2.5	1		04/14/15 00:22	74-97-5	
Bromodichloromethane	ND	ug/kg	7.4	2.8	1		04/14/15 00:22	75-27-4	
Bromoform	ND	ug/kg	7.4	3.4	1		04/14/15 00:22	75-25-2	
Bromomethane	ND	ug/kg	14.8	3.7	1		04/14/15 00:22	74-83-9	
2-Butanone (MEK)	ND	ug/kg	148	4.3	1		04/14/15 00:22	78-93-3	
n-Butylbenzene	ND	ug/kg	7.4	2.7	1		04/14/15 00:22	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.4	2.4	1		04/14/15 00:22	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.4	3.0	1		04/14/15 00:22	98-06-6	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

Sample: GTW-605-802-6-1 Lab ID: 92245059002 Collected: 04/09/15 13:15 Received: 04/10/15 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Carbon tetrachloride	ND	ug/kg	7.4	3.8	1		04/14/15 00:22	56-23-5	
Chlorobenzene	ND	ug/kg	7.4	2.8	1		04/14/15 00:22	108-90-7	
Chloroethane	ND	ug/kg	14.8	3.5	1		04/14/15 00:22	75-00-3	
Chloroform	ND	ug/kg	7.4	2.4	1		04/14/15 00:22	67-66-3	
Chloromethane	ND	ug/kg	14.8	3.5	1		04/14/15 00:22	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.4	2.5	1		04/14/15 00:22	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.4	2.7	1		04/14/15 00:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.4	5.3	1		04/14/15 00:22	96-12-8	
Dibromochloromethane	ND	ug/kg	7.4	2.7	1		04/14/15 00:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.4	2.7	1		04/14/15 00:22	106-93-4	
Dibromomethane	ND	ug/kg	7.4	3.7	1		04/14/15 00:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.4	2.8	1		04/14/15 00:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.4	3.0	1		04/14/15 00:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.4	2.5	1		04/14/15 00:22	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	14.8	5.3	1		04/14/15 00:22	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.4	2.2	1		04/14/15 00:22	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.4	3.3	1		04/14/15 00:22	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.4	2.7	1		04/14/15 00:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.4	2.1	1		04/14/15 00:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.4	2.8	1		04/14/15 00:22	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.4	2.5	1		04/14/15 00:22	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.4	2.8	1		04/14/15 00:22	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.4	2.5	1		04/14/15 00:22	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.4	2.2	1		04/14/15 00:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	7.4	2.7	1		04/14/15 00:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.4	2.2	1		04/14/15 00:22	10061-02-6	
Diisopropyl ether	ND	ug/kg	7.4	2.5	1		04/14/15 00:22	108-20-3	
Ethylbenzene	ND	ug/kg	7.4	2.7	1		04/14/15 00:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	7.4	3.0	1		04/14/15 00:22	87-68-3	
2-Hexanone	ND	ug/kg	73.9	5.8	1		04/14/15 00:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.4	2.8	1		04/14/15 00:22	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.4	2.5	1		04/14/15 00:22	99-87-6	
Methylene Chloride	ND	ug/kg	29.6	4.4	1		04/14/15 00:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	73.9	5.5	1		04/14/15 00:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	7.4	2.2	1		04/14/15 00:22	1634-04-4	
Naphthalene	3.8J	ug/kg	7.4	1.8	1		04/14/15 00:22	91-20-3	
n-Propylbenzene	ND	ug/kg	7.4	2.5	1		04/14/15 00:22	103-65-1	
Styrene	ND	ug/kg	7.4	2.7	1		04/14/15 00:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.4	3.1	1		04/14/15 00:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.4	2.8	1		04/14/15 00:22	79-34-5	
Tetrachloroethene	ND	ug/kg	7.4	2.5	1		04/14/15 00:22	127-18-4	
Toluene	ND	ug/kg	7.4	2.7	1		04/14/15 00:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.4	3.3	1		04/14/15 00:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.4	2.4	1		04/14/15 00:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.4	2.7	1		04/14/15 00:22	71-55-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

Sample: GTW-605-802-6-1 **Lab ID: 92245059002** Collected: 04/09/15 13:15 Received: 04/10/15 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
1,1,2-Trichloroethane	ND	ug/kg	7.4	3.1	1		04/14/15 00:22	79-00-5	
Trichloroethene	ND	ug/kg	7.4	3.1	1		04/14/15 00:22	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.4	3.3	1		04/14/15 00:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.4	2.4	1		04/14/15 00:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.4	3.0	1		04/14/15 00:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.4	2.7	1		04/14/15 00:22	108-67-8	
Vinyl acetate	ND	ug/kg	73.9	13.0	1		04/14/15 00:22	108-05-4	
Vinyl chloride	ND	ug/kg	14.8	2.7	1		04/14/15 00:22	75-01-4	
Xylene (Total)	ND	ug/kg	14.8	5.3	1		04/14/15 00:22	1330-20-7	
m&p-Xylene	ND	ug/kg	14.8	5.3	1		04/14/15 00:22	179601-23-1	
o-Xylene	ND	ug/kg	7.4	2.8	1		04/14/15 00:22	95-47-6	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		04/14/15 00:22	2037-26-5	1g
4-Bromofluorobenzene (S)	71	%	70-130		1		04/14/15 00:22	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-132		1		04/14/15 00:22	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	17.3	%	0.10	0.10	1		04/14/15 17:15		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

QC Batch:	GCV/9200	Analysis Method:	EPA 8015 Modified
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
Associated Lab Samples:	92245059001, 92245059002		

METHOD BLANK: 1433011 Matrix: Solid

Associated Lab Samples: 92245059001, 92245059002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	04/14/15 01:15	
4-Bromofluorobenzene (S)	%	119	70-167	04/14/15 01:15	

LABORATORY CONTROL SAMPLE: 1433012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	50	62.7	125	70-165	
4-Bromofluorobenzene (S)	%			121	70-167	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

QC Batch: MERP/7748

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Associated Lab Samples: 92245059001, 92245059002

METHOD BLANK: 1436483

Matrix: Solid

Associated Lab Samples: 92245059001, 92245059002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0050	04/17/15 11:12	

LABORATORY CONTROL SAMPLE: 1436484

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.067	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1436488 1436489

Parameter	Units	92245059001		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Mercury	mg/kg	0.19	.05	.063	0.21	0.26	54	114	75-125	19	20	M6

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

QC Batch: MPRP/18291 Analysis Method: EPA 6010
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET
 Associated Lab Samples: 92245059001, 92245059002

METHOD BLANK: 1436530 Matrix: Solid

Associated Lab Samples: 92245059001, 92245059002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	ND	10.0	04/20/15 13:57	
Antimony	mg/kg	ND	0.50	04/20/15 13:57	
Arsenic	mg/kg	ND	1.0	04/20/15 13:57	
Barium	mg/kg	ND	0.50	04/20/15 13:57	
Beryllium	mg/kg	ND	0.10	04/20/15 13:57	
Cadmium	mg/kg	ND	0.10	04/20/15 13:57	
Calcium	mg/kg	ND	10.0	04/20/15 13:57	
Chromium	mg/kg	ND	0.50	04/20/15 13:57	
Cobalt	mg/kg	ND	0.50	04/20/15 13:57	
Copper	mg/kg	ND	0.50	04/20/15 13:57	
Iron	mg/kg	ND	10.0	04/20/15 13:57	
Lead	mg/kg	ND	0.50	04/20/15 13:57	
Magnesium	mg/kg	ND	10.0	04/20/15 13:57	
Manganese	mg/kg	ND	0.50	04/20/15 13:57	
Nickel	mg/kg	ND	0.50	04/20/15 13:57	
Potassium	mg/kg	ND	500	04/20/15 13:57	
Selenium	mg/kg	ND	1.0	04/20/15 13:57	
Silver	mg/kg	ND	0.50	04/20/15 13:57	
Sodium	mg/kg	ND	500	04/20/15 13:57	
Thallium	mg/kg	ND	1.0	04/20/15 13:57	
Vanadium	mg/kg	ND	0.50	04/20/15 13:57	
Zinc	mg/kg	ND	1.0	04/20/15 13:57	

LABORATORY CONTROL SAMPLE: 1436531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	500	488	98	80-120	
Antimony	mg/kg	50	52.2	104	80-120	
Arsenic	mg/kg	50	49.6	99	80-120	
Barium	mg/kg	50	49.0	98	80-120	
Beryllium	mg/kg	50	49.0	98	80-120	
Cadmium	mg/kg	50	50.1	100	80-120	
Calcium	mg/kg	500	481	96	80-120	
Chromium	mg/kg	50	47.9	96	80-120	
Cobalt	mg/kg	50	50.8	102	80-120	
Copper	mg/kg	50	50.3	101	80-120	
Iron	mg/kg	500	488	98	80-120	
Lead	mg/kg	50	50.2	100	80-120	
Magnesium	mg/kg	500	481	96	80-120	
Manganese	mg/kg	50	48.5	97	80-120	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

LABORATORY CONTROL SAMPLE: 1436531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nickel	mg/kg	50	49.1	98	80-120	
Potassium	mg/kg	500	ND	100	80-120	
Selenium	mg/kg	50	50.6	101	80-120	
Silver	mg/kg	25	24.6	99	80-120	
Sodium	mg/kg	500	503	101	80-120	
Thallium	mg/kg	50	49.6	99	80-120	
Vanadium	mg/kg	50	49.3	99	80-120	
Zinc	mg/kg	50	49.3	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1436532 1436533

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result								
Aluminum	mg/kg	4860	547	537	6380	6470	279	301	75-125	1	20	M1	
Antimony	mg/kg	3.2	54.7	53.7	44.2	42.5	75	73	75-125	4	20	M1	
Arsenic	mg/kg	14.8	54.7	53.7	60.4	59.3	83	83	75-125	2	20		
Barium	mg/kg	246	54.7	53.7	270	267	45	40	75-125	1	20	M1	
Beryllium	mg/kg	0.37	54.7	53.7	50.4	49.7	91	92	75-125	1	20		
Cadmium	mg/kg	2.1	54.7	53.7	53.1	51.8	93	93	75-125	2	20		
Calcium	mg/kg	9020	547	537	5620	5570	-622	-644	75-125	1	20	M1	
Chromium	mg/kg	19.4	54.7	53.7	88.7	86.9	127	126	75-125	2	20	M1	
Cobalt	mg/kg	5.8	54.7	53.7	57.1	55.6	94	93	75-125	3	20		
Copper	mg/kg	104	54.7	53.7	150	146	85	79	75-125	3	20		
Iron	mg/kg	24100	547	537	16500	16200	-1383	-1475	75-125	2	20	M6	
Lead	mg/kg	475	54.7	53.7	509	498	62	42	75-125	2	20	M1	
Magnesium	mg/kg	1500	547	537	2180	2140	126	120	75-125	2	20	M1	
Manganese	mg/kg	297	54.7	53.7	276	269	-38	-52	75-125	3	20	M1	
Nickel	mg/kg	15.3	54.7	53.7	63.9	62.3	89	88	75-125	3	20		
Potassium	mg/kg	790	547	537	1300	1300	92	94	75-125	0	20		
Selenium	mg/kg	ND	54.7	53.7	49.6	48.7	91	91	75-125	2	20		
Silver	mg/kg	0.87	27.4	26.8	26.3	25.6	93	92	75-125	2	20		
Sodium	mg/kg	399J	547	537	893	882	90	90	75-125	1	20		
Thallium	mg/kg	ND	54.7	53.7	45.3	44.2	82	82	75-125	2	20		
Vanadium	mg/kg	21.1	54.7	53.7	73.8	72.1	96	95	75-125	2	20		
Zinc	mg/kg	371	54.7	53.7	387	376	28	10	75-125	3	20	M1	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

QC Batch:	MSV/31175	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035A Volatile Organics
Associated Lab Samples:	92245059001, 92245059002		

METHOD BLANK: 1433172 Matrix: Solid

Associated Lab Samples: 92245059001, 92245059002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.0	04/13/15 15:07	
1,1,1-Trichloroethane	ug/kg	ND	4.0	04/13/15 15:07	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.0	04/13/15 15:07	
1,1,2-Trichloroethane	ug/kg	ND	4.0	04/13/15 15:07	
1,1-Dichloroethane	ug/kg	ND	4.0	04/13/15 15:07	
1,1-Dichloroethene	ug/kg	ND	4.0	04/13/15 15:07	
1,1-Dichloropropene	ug/kg	ND	4.0	04/13/15 15:07	
1,2,3-Trichlorobenzene	ug/kg	ND	4.0	04/13/15 15:07	
1,2,3-Trichloropropane	ug/kg	ND	4.0	04/13/15 15:07	
1,2,4-Trichlorobenzene	ug/kg	ND	4.0	04/13/15 15:07	
1,2,4-Trimethylbenzene	ug/kg	ND	4.0	04/13/15 15:07	
1,2-Dibromo-3-chloropropane	ug/kg	ND	4.0	04/13/15 15:07	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.0	04/13/15 15:07	
1,2-Dichlorobenzene	ug/kg	ND	4.0	04/13/15 15:07	
1,2-Dichloroethane	ug/kg	ND	4.0	04/13/15 15:07	
1,2-Dichloropropane	ug/kg	ND	4.0	04/13/15 15:07	
1,3,5-Trimethylbenzene	ug/kg	ND	4.0	04/13/15 15:07	
1,3-Dichlorobenzene	ug/kg	ND	4.0	04/13/15 15:07	
1,3-Dichloropropane	ug/kg	ND	4.0	04/13/15 15:07	
1,4-Dichlorobenzene	ug/kg	ND	4.0	04/13/15 15:07	
2,2-Dichloropropane	ug/kg	ND	4.0	04/13/15 15:07	
2-Butanone (MEK)	ug/kg	ND	79.1	04/13/15 15:07	
2-Chlorotoluene	ug/kg	ND	4.0	04/13/15 15:07	
2-Hexanone	ug/kg	ND	39.6	04/13/15 15:07	
4-Chlorotoluene	ug/kg	ND	4.0	04/13/15 15:07	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	39.6	04/13/15 15:07	
Acetone	ug/kg	ND	79.1	04/13/15 15:07	
Benzene	ug/kg	ND	4.0	04/13/15 15:07	
Bromobenzene	ug/kg	ND	4.0	04/13/15 15:07	
Bromochloromethane	ug/kg	ND	4.0	04/13/15 15:07	
Bromodichloromethane	ug/kg	ND	4.0	04/13/15 15:07	
Bromoform	ug/kg	ND	4.0	04/13/15 15:07	
Bromomethane	ug/kg	ND	7.9	04/13/15 15:07	
Carbon tetrachloride	ug/kg	ND	4.0	04/13/15 15:07	
Chlorobenzene	ug/kg	ND	4.0	04/13/15 15:07	
Chloroethane	ug/kg	ND	7.9	04/13/15 15:07	
Chloroform	ug/kg	ND	4.0	04/13/15 15:07	
Chloromethane	ug/kg	ND	7.9	04/13/15 15:07	
cis-1,2-Dichloroethene	ug/kg	ND	4.0	04/13/15 15:07	
cis-1,3-Dichloropropene	ug/kg	ND	4.0	04/13/15 15:07	
Dibromochloromethane	ug/kg	ND	4.0	04/13/15 15:07	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

METHOD BLANK: 1433172

Matrix: Solid

Associated Lab Samples: 92245059001, 92245059002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	4.0	04/13/15 15:07	
Dichlorodifluoromethane	ug/kg	ND	7.9	04/13/15 15:07	
Diisopropyl ether	ug/kg	ND	4.0	04/13/15 15:07	
Ethylbenzene	ug/kg	ND	4.0	04/13/15 15:07	
Hexachloro-1,3-butadiene	ug/kg	ND	4.0	04/13/15 15:07	
Isopropylbenzene (Cumene)	ug/kg	ND	4.0	04/13/15 15:07	
m&p-Xylene	ug/kg	ND	7.9	04/13/15 15:07	
Methyl-tert-butyl ether	ug/kg	ND	4.0	04/13/15 15:07	
Methylene Chloride	ug/kg	ND	15.8	04/13/15 15:07	
n-Butylbenzene	ug/kg	ND	4.0	04/13/15 15:07	
n-Propylbenzene	ug/kg	ND	4.0	04/13/15 15:07	
Naphthalene	ug/kg	ND	4.0	04/13/15 15:07	
o-Xylene	ug/kg	ND	4.0	04/13/15 15:07	
p-Isopropyltoluene	ug/kg	ND	4.0	04/13/15 15:07	
sec-Butylbenzene	ug/kg	ND	4.0	04/13/15 15:07	
Styrene	ug/kg	1.7J	4.0	04/13/15 15:07	
tert-Butylbenzene	ug/kg	ND	4.0	04/13/15 15:07	
Tetrachloroethene	ug/kg	ND	4.0	04/13/15 15:07	
Toluene	ug/kg	ND	4.0	04/13/15 15:07	
trans-1,2-Dichloroethene	ug/kg	ND	4.0	04/13/15 15:07	
trans-1,3-Dichloropropene	ug/kg	ND	4.0	04/13/15 15:07	
Trichloroethene	ug/kg	ND	4.0	04/13/15 15:07	
Trichlorofluoromethane	ug/kg	ND	4.0	04/13/15 15:07	
Vinyl acetate	ug/kg	ND	39.6	04/13/15 15:07	
Vinyl chloride	ug/kg	ND	7.9	04/13/15 15:07	
Xylene (Total)	ug/kg	ND	7.9	04/13/15 15:07	
1,2-Dichloroethane-d4 (S)	%	100	70-132	04/13/15 15:07	
4-Bromofluorobenzene (S)	%	103	70-130	04/13/15 15:07	
Toluene-d8 (S)	%	105	70-130	04/13/15 15:07	

LABORATORY CONTROL SAMPLE: 1433173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	45.1	50.8	113	74-137	
1,1,1-Trichloroethane	ug/kg	45.1	49.2	109	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	45.1	44.9	99	72-141	
1,1,2-Trichloroethane	ug/kg	45.1	48.4	107	78-138	
1,1-Dichloroethane	ug/kg	45.1	47.0	104	69-134	
1,1-Dichloroethene	ug/kg	45.1	46.8	104	67-138	
1,1-Dichloropropene	ug/kg	45.1	49.8	110	69-139	
1,2,3-Trichlorobenzene	ug/kg	45.1	50.0	111	70-146	
1,2,3-Trichloropropane	ug/kg	45.1	49.9	111	69-144	
1,2,4-Trichlorobenzene	ug/kg	45.1	49.7	110	68-148	
1,2,4-Trimethylbenzene	ug/kg	45.1	47.8	106	74-137	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

LABORATORY CONTROL SAMPLE: 1433173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	45.1	46.3	103	65-140	
1,2-Dibromoethane (EDB)	ug/kg	45.1	50.9	113	77-135	
1,2-Dichlorobenzene	ug/kg	45.1	49.5	110	77-141	
1,2-Dichloroethane	ug/kg	45.1	47.0	104	65-137	
1,2-Dichloropropane	ug/kg	45.1	46.1	102	72-136	
1,3,5-Trimethylbenzene	ug/kg	45.1	47.8	106	76-133	
1,3-Dichlorobenzene	ug/kg	45.1	48.4	107	74-138	
1,3-Dichloropropane	ug/kg	45.1	49.0	109	71-139	
1,4-Dichlorobenzene	ug/kg	45.1	48.4	107	76-138	
2,2-Dichloropropane	ug/kg	45.1	47.2	105	68-137	
2-Butanone (MEK)	ug/kg	90.3	77.2J	86	58-147	
2-Chlorotoluene	ug/kg	45.1	48.5	107	73-139	
2-Hexanone	ug/kg	90.3	85.7	95	62-145	
4-Chlorotoluene	ug/kg	45.1	48.3	107	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	90.3	88.7	98	64-149	
Acetone	ug/kg	90.3	82.4J	91	53-153	
Benzene	ug/kg	45.1	49.8	110	73-135	
Bromobenzene	ug/kg	45.1	47.3	105	75-133	
Bromochloromethane	ug/kg	45.1	50.0	111	73-134	
Bromodichloromethane	ug/kg	45.1	44.4	98	71-135	
Bromoform	ug/kg	45.1	47.0	104	66-141	
Bromomethane	ug/kg	45.1	48.7	108	53-160	
Carbon tetrachloride	ug/kg	45.1	49.8	110	60-145	
Chlorobenzene	ug/kg	45.1	48.8	108	78-130	
Chloroethane	ug/kg	45.1	51.2	113	64-149	
Chloroform	ug/kg	45.1	42.2	94	70-134	
Chloromethane	ug/kg	45.1	42.7	95	52-150	
cis-1,2-Dichloroethene	ug/kg	45.1	47.2	105	70-133	
cis-1,3-Dichloropropene	ug/kg	45.1	48.1	107	68-134	
Dibromochloromethane	ug/kg	45.1	46.3	103	71-138	
Dibromomethane	ug/kg	45.1	50.4	112	74-130	
Dichlorodifluoromethane	ug/kg	45.1	49.6	110	40-160	
Diisopropyl ether	ug/kg	45.1	44.4	98	69-141	
Ethylbenzene	ug/kg	45.1	48.2	107	75-133	
Hexachloro-1,3-butadiene	ug/kg	45.1	51.0	113	68-143	
Isopropylbenzene (Cumene)	ug/kg	45.1	48.5	107	76-143	
m&p-Xylene	ug/kg	90.3	94.9	105	75-136	
Methyl-tert-butyl ether	ug/kg	45.1	47.6	106	68-144	
Methylene Chloride	ug/kg	45.1	35.4	79	45-154	
n-Butylbenzene	ug/kg	45.1	46.7	104	72-137	
n-Propylbenzene	ug/kg	45.1	47.3	105	76-136	
Naphthalene	ug/kg	45.1	47.8	106	68-151	
o-Xylene	ug/kg	45.1	46.4	103	76-141	
p-Isopropyltoluene	ug/kg	45.1	47.3	105	76-140	
sec-Butylbenzene	ug/kg	45.1	47.2	105	79-139	
Styrene	ug/kg	45.1	51.3	114	79-137	
tert-Butylbenzene	ug/kg	45.1	48.1	107	74-143	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

LABORATORY CONTROL SAMPLE: 1433173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	45.1	52.6	117	71-138	
Toluene	ug/kg	45.1	48.6	108	74-131	
trans-1,2-Dichloroethene	ug/kg	45.1	47.2	105	67-135	
trans-1,3-Dichloropropene	ug/kg	45.1	49.4	110	65-146	
Trichloroethene	ug/kg	45.1	52.9	117	67-135	
Trichlorofluoromethane	ug/kg	45.1	48.7	108	59-144	
Vinyl acetate	ug/kg	90.3	144	159	40-160	
Vinyl chloride	ug/kg	45.1	48.0	106	56-141	
Xylene (Total)	ug/kg	135	141	104	76-137	
1,2-Dichloroethane-d4 (S)	%			99	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 1433548

Parameter	Units	92244869024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	22	18.0	82	70-130	
1,1,1-Trichloroethane	ug/kg	ND	22	19.7	89	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	ND	22	18.7	85	70-130	
1,1,2-Trichloroethane	ug/kg	ND	22	19.8	90	70-130	
1,1-Dichloroethane	ug/kg	4.8J	22	23.3	84	70-130	
1,1-Dichloroethene	ug/kg	ND	22	19.9	90	49-180	
1,1-Dichloropropene	ug/kg	ND	22	20.0	91	70-130	
1,2,3-Trichlorobenzene	ug/kg	ND	22	19.4	88	70-130	
1,2,3-Trichloropropane	ug/kg	ND	22	18.9	86	70-130	
1,2,4-Trichlorobenzene	ug/kg	ND	22	19.2	87	70-130	
1,2,4-Trimethylbenzene	ug/kg	ND	22	19.2	87	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	ND	22	17.0	77	70-130	
1,2-Dibromoethane (EDB)	ug/kg	ND	22	20.0	91	70-130	
1,2-Dichlorobenzene	ug/kg	ND	22	20.0	91	70-130	
1,2-Dichloroethane	ug/kg	ND	22	19.0	86	70-130	
1,2-Dichloropropane	ug/kg	ND	22	19.2	87	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	22	19.3	87	70-130	
1,3-Dichlorobenzene	ug/kg	ND	22	19.5	89	70-130	
1,3-Dichloropropane	ug/kg	ND	22	19.1	87	70-130	
1,4-Dichlorobenzene	ug/kg	ND	22	19.3	88	70-130	
2,2-Dichloropropane	ug/kg	ND	22	19.2	87	70-130	
2-Butanone (MEK)	ug/kg	ND	44.1	30.4J	69	70-130 M1	
2-Chlorotoluene	ug/kg	ND	22	19.2	87	70-130	
2-Hexanone	ug/kg	ND	44.1	33.8J	77	70-130	
4-Chlorotoluene	ug/kg	ND	22	19.0	86	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	44.1	34.2J	78	70-130	
Acetone	ug/kg	ND	44.1	33.1J	75	70-130	
Benzene	ug/kg	ND	22	21.3	97	50-166	
Bromobenzene	ug/kg	ND	22	18.7	85	70-130	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245059

MATRIX SPIKE SAMPLE: 1433548		92244869024	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromochloromethane	ug/kg	ND	22	20.2	92	70-130	
Bromodichloromethane	ug/kg	ND	22	16.6	75	70-130	
Bromoform	ug/kg	ND	22	15.4	70	70-130	
Bromomethane	ug/kg	ND	22	20.1	91	70-130	
Carbon tetrachloride	ug/kg	ND	22	20.1	91	70-130	
Chlorobenzene	ug/kg	ND	22	19.7	90	43-169	
Chloroethane	ug/kg	ND	22	21.5	97	70-130	
Chloroform	ug/kg	ND	22	17.2	78	70-130	
Chloromethane	ug/kg	ND	22	17.1	78	70-130	
cis-1,2-Dichloroethene	ug/kg	11.8	22	28.6	76	70-130	
cis-1,3-Dichloropropene	ug/kg	ND	22	18.8	85	70-130	
Dibromochloromethane	ug/kg	ND	22	16.4	75	70-130	
Dibromomethane	ug/kg	ND	22	21.4	97	70-130	
Dichlorodifluoromethane	ug/kg	ND	22	18.2	83	70-130	
Diisopropyl ether	ug/kg	ND	22	17.2	78	70-130	
Ethylbenzene	ug/kg	ND	22	19.9	90	70-130	
Hexachloro-1,3-butadiene	ug/kg	ND	22	20.3	92	70-130	
Isopropylbenzene (Cumene)	ug/kg	ND	22	19.8	90	70-130	
m&p-Xylene	ug/kg	ND	44.1	40.6	92	70-130	
Methyl-tert-butyl ether	ug/kg	ND	22	18.7	85	70-130	
Methylene Chloride	ug/kg	ND	22	8.9J	40	70-130	M1
n-Butylbenzene	ug/kg	ND	22	18.6	84	70-130	
n-Propylbenzene	ug/kg	ND	22	18.9	86	70-130	
Naphthalene	ug/kg	ND	22	18.6	84	70-130	
o-Xylene	ug/kg	ND	22	19.7	89	70-130	
p-Isopropyltoluene	ug/kg	ND	22	19.2	87	70-130	
sec-Butylbenzene	ug/kg	ND	22	19.8	90	70-130	
Styrene	ug/kg	ND	22	19.7	90	70-130	
tert-Butylbenzene	ug/kg	ND	22	19.9	90	70-130	
Tetrachloroethene	ug/kg	3.8J	22	22.6	85	70-130	
Toluene	ug/kg	ND	22	20.6	94	52-163	
trans-1,2-Dichloroethene	ug/kg	ND	22	20.5	93	70-130	
trans-1,3-Dichloropropene	ug/kg	ND	22	18.7	85	70-130	
Trichloroethene	ug/kg	ND	22	22.5	102	49-167	
Trichlorofluoromethane	ug/kg	ND	22	20.7	94	70-130	
Vinyl acetate	ug/kg	ND	44.1	63.6	144	70-130	M1
Vinyl chloride	ug/kg	ND	22	18.7	85	70-130	
1,2-Dichloroethane-d4 (S)	%					88	70-132
4-Bromofluorobenzene (S)	%					104	70-130
Toluene-d8 (S)	%					99	70-130

SAMPLE DUPLICATE: 1433547

Parameter	Units	92244869022 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

SAMPLE DUPLICATE: 1433547

Parameter	Units	92244869022 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
2-Hexanone	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	5.3J	3.7J		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Diisopropyl ether	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
m&p-Xylene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

SAMPLE DUPLICATE: 1433547

Parameter	Units	92244869022 Result	Dup Result	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
o-Xylene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	2.8J	3.3J		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl acetate	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	117	98	15		
4-Bromofluorobenzene (S)	%	105	105	4		
Toluene-d8 (S)	%	104	106	6		

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

QC Batch: OEXT/34242 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 92245059001, 92245059002

METHOD BLANK: 1433593 Matrix: Solid

Associated Lab Samples: 92245059001, 92245059002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	5.0	04/17/15 22:03	
n-Pentacosane (S)	%	66	41-119	04/17/15 22:03	

LABORATORY CONTROL SAMPLE: 1433594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	66.7	46.2	69	49-113	
n-Pentacosane (S)	%			68	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1433595 1433596

Parameter	Units	92244995026		1433595		1433596		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Diesel Range Organics(C10-C28)	mg/kg	ND	82.1	82.1	55.2	53.7	64	63	10-146	3	30
n-Pentacosane (S)	%						68	66	41-119		

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

QC Batch:	OEXT/34306	Analysis Method:	EPA 8015 Modified
QC Batch Method:	EPA 3546	Analysis Description:	8015 Solid GCSV ORO
Associated Lab Samples:	92245059001, 92245059002		

METHOD BLANK: 1435820 Matrix: Solid

Associated Lab Samples: 92245059001, 92245059002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil Range Organics (C28-C40)	mg/kg	ND	15.0	04/19/15 21:12	
n-Pentacosane (S)	%	82	41-119	04/19/15 21:12	

LABORATORY CONTROL SAMPLE: 1435821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil Range Organics (C28-C40)	mg/kg	83.3	78.7	94	50-150	
n-Pentacosane (S)	%			84	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1435822 1435823

Parameter	Units	92244992007		1435822		1435823		% Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
Oil Range Organics (C28-C40)	mg/kg	ND	97	97	90.3	90.9	91	92	10-150	1	30		
n-Pentacosane (S)	%						82	83	41-119				

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245059

QC Batch: OEXT/34277 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 92245059001, 92245059002

METHOD BLANK: 1434756 Matrix: Solid
Associated Lab Samples: 92245059001, 92245059002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	04/15/15 13:49	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	04/15/15 13:49	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	04/15/15 13:49	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	04/15/15 13:49	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	04/15/15 13:49	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	04/15/15 13:49	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	04/15/15 13:49	
Decachlorobiphenyl (S)	%	104	21-132	04/15/15 13:49	

LABORATORY CONTROL SAMPLE & LCSD: 1434757

Parameter	Units	1434758								Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	
PCB-1016 (Aroclor 1016)	ug/kg	167	128	126	77	76	31-120	1	30	
PCB-1260 (Aroclor 1260)	ug/kg	167	153	147	92	88	32-120	4	30	
Decachlorobiphenyl (S)	%				104	100	21-132			

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

QC Batch: OEXT/34259 Analysis Method: EPA 8270
 QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave PAH
 Associated Lab Samples: 92245059001, 92245059002

METHOD BLANK: 1433947 Matrix: Solid

Associated Lab Samples: 92245059001, 92245059002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	330	04/16/15 14:49	
2-Methylnaphthalene	ug/kg	ND	330	04/16/15 14:49	
Acenaphthene	ug/kg	ND	330	04/16/15 14:49	
Acenaphthylene	ug/kg	ND	330	04/16/15 14:49	
Anthracene	ug/kg	ND	330	04/16/15 14:49	
Benzo(a)anthracene	ug/kg	ND	330	04/16/15 14:49	
Benzo(a)pyrene	ug/kg	ND	330	04/16/15 14:49	
Benzo(b)fluoranthene	ug/kg	ND	330	04/16/15 14:49	
Benzo(g,h,i)perylene	ug/kg	ND	330	04/16/15 14:49	
Benzo(k)fluoranthene	ug/kg	ND	330	04/16/15 14:49	
Chrysene	ug/kg	ND	330	04/16/15 14:49	
Dibenz(a,h)anthracene	ug/kg	ND	330	04/16/15 14:49	
Fluoranthene	ug/kg	ND	330	04/16/15 14:49	
Fluorene	ug/kg	ND	330	04/16/15 14:49	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	04/16/15 14:49	
Naphthalene	ug/kg	ND	330	04/16/15 14:49	
Phenanthrene	ug/kg	ND	330	04/16/15 14:49	
Pyrene	ug/kg	ND	330	04/16/15 14:49	
2-Fluorobiphenyl (S)	%	58	30-110	04/16/15 14:49	
Nitrobenzene-d5 (S)	%	51	23-110	04/16/15 14:49	
Terphenyl-d14 (S)	%	74	28-110	04/16/15 14:49	

LABORATORY CONTROL SAMPLE: 1433948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	1670	1050	63	40-120	
2-Methylnaphthalene	ug/kg	1670	941	56	26-120	
Acenaphthene	ug/kg	1670	1120	67	46-120	
Acenaphthylene	ug/kg	1670	1100	66	46-120	
Anthracene	ug/kg	1670	1160	70	63-120	
Benzo(a)anthracene	ug/kg	1670	1050	63	61-120	
Benzo(a)pyrene	ug/kg	1670	1100	66	59-120	
Benzo(b)fluoranthene	ug/kg	1670	1070	64	55-120	
Benzo(g,h,i)perylene	ug/kg	1670	1220	73	57-120	
Benzo(k)fluoranthene	ug/kg	1670	1070	64	56-120	
Chrysene	ug/kg	1670	1100	66	64-120	
Dibenz(a,h)anthracene	ug/kg	1670	1240	75	56-120	
Fluoranthene	ug/kg	1670	1220	73	61-120	
Fluorene	ug/kg	1670	1200	72	51-120	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1190	71	58-120	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

LABORATORY CONTROL SAMPLE: 1433948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	1670	965	58	38-120	
Phenanthrene	ug/kg	1670	1180	71	62-120	
Pyrene	ug/kg	1670	1010	61	63-120	L0
2-Fluorobiphenyl (S)	%			58	30-110	
Nitrobenzene-d5 (S)	%			55	23-110	
Terphenyl-d14 (S)	%			64	28-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

QC Batch: PMST/7727

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 92245059001, 92245059002

SAMPLE DUPLICATE: 1433770

Parameter	Units	92244477001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.8	27.6	28	25	R1

SAMPLE DUPLICATE: 1433771

Parameter	Units	92245009001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.4	8.6	1	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245059

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g The internal standard response is below criteria. No hits associated with this internal standard. Results unaffected by high bias.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

P3 Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245059

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92245059001	GTW-605-802-9-1	EPA 3546	OEXT/34242	EPA 8015 Modified	GCSV/20984
92245059002	GTW-605-802-6-1	EPA 3546	OEXT/34242	EPA 8015 Modified	GCSV/20984
92245059001	GTW-605-802-9-1	EPA 3546	OEXT/34306	EPA 8015 Modified	GCSV/20976
92245059002	GTW-605-802-6-1	EPA 3546	OEXT/34306	EPA 8015 Modified	GCSV/20976
92245059001	GTW-605-802-9-1	EPA 3546	OEXT/34277	EPA 8082	GCSV/20963
92245059002	GTW-605-802-6-1	EPA 3546	OEXT/34277	EPA 8082	GCSV/20963
92245059001	GTW-605-802-9-1	EPA 5035A/5030B	GCV/9200	EPA 8015 Modified	GCV/9204
92245059002	GTW-605-802-6-1	EPA 5035A/5030B	GCV/9200	EPA 8015 Modified	GCV/9204
92245059001	GTW-605-802-9-1	EPA 3050	MPRP/18291	EPA 6010	ICP/16424
92245059002	GTW-605-802-6-1	EPA 3050	MPRP/18291	EPA 6010	ICP/16424
92245059001	GTW-605-802-9-1	EPA 7471	MERP/7748	EPA 7471	MERC/7432
92245059002	GTW-605-802-6-1	EPA 7471	MERP/7748	EPA 7471	MERC/7432
92245059001	GTW-605-802-9-1	EPA 3546	OEXT/34259	EPA 8270	MSSV/10544
92245059002	GTW-605-802-6-1	EPA 3546	OEXT/34259	EPA 8270	MSSV/10544
92245059001	GTW-605-802-9-1	EPA 8260	MSV/31175		
92245059002	GTW-605-802-6-1	EPA 8260	MSV/31175		
92245059001	GTW-605-802-9-1	ASTM D2974-87	PMST/7727		
92245059002	GTW-605-802-6-1	ASTM D2974-87	PMST/7727		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: September 22, 2014
Page 1 of 2

Document Number:
F-CHR-CS-003-rev.15

Issuing Authority:
Pace Huntersville Quality Office

Client Name: Haley Kelly Aldrich

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble V ip Bubble Bags None Other _____

Thermometer Used: IR Gun T1401 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 3.4 °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date
Proj. Name

Date and Initials of person examining contents: AL 4/10/15

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / I / N

Person Contacted: Dana Korman Date/Time: 4/10 + 4/16

Comments/ Resolution: Confirm SAF/Parameters

SCURF Review:	<u>AK</u>	Date:	<u>04/10/15</u>
SRF Review:	<u>MS</u>	Date:	<u>04/13/15</u>

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92245059



92245059

May 27, 2015

Dana Kennard
Haley & Aldrich, Inc

RE: Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

Dear Dana Kennard:

Enclosed are the analytical results for sample(s) received by the laboratory on April 11, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This report was revised to report down to the MDL for all parameters.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Nicole Benjamin
nicole.benjamin@pacelabs.com
Project Manager

Enclosures

cc: Karin Holland
Pam Minor



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92245073001	GSS-603-800-1-1	Solid	04/10/15 08:00	04/11/15 09:00
92245073002	GSS-603-800-1-2	Solid	04/10/15 08:15	04/11/15 09:00
92245073003	GSS-603-800-3-1	Solid	04/10/15 08:45	04/11/15 09:00
92245073004	GSS-603-800-3-2	Solid	04/10/15 09:00	04/11/15 09:00
92245073005	GSS-603-800-2-1	Solid	04/10/15 09:15	04/11/15 09:00
92245073006	GSS-603-800-2-2	Solid	04/10/15 09:30	04/11/15 09:00
92245073007	GTW-605-802-7-1	Solid	04/10/15 09:45	04/11/15 09:00
92245073008	GTW-605-802-6-2	Water	04/10/15 12:40	04/11/15 09:00
92245073009	GTW-605-802-9-2	Water	04/10/15 12:55	04/11/15 09:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92245073001	GSS-603-800-1-1	EPA 8015 Modified	CMI	2	PASI-C
		EPA 8015 Modified	CMI	2	PASI-C
		EPA 8082	RES	8	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		EPA 7471	HVK	1	PASI-A
		EPA 8270	BPJ	21	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	EJK	1	PASI-C
92245073002	GSS-603-800-1-2	EPA 8015 Modified	CMI	2	PASI-C
		EPA 8015 Modified	CMI	2	PASI-C
		EPA 8082	RES	8	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		EPA 7471	HVK	1	PASI-A
		EPA 8270	BPJ	21	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	EJK	1	PASI-C
92245073003	GSS-603-800-3-1	EPA 8015 Modified	CMI	2	PASI-C
		EPA 8015 Modified	CMI	2	PASI-C
		EPA 8082	RES	8	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		EPA 7471	HVK	1	PASI-A
		EPA 8270	BPJ	21	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	EJK	1	PASI-C
92245073004	GSS-603-800-3-2	EPA 8015 Modified	CMI	2	PASI-C
		EPA 8015 Modified	CMI	2	PASI-C
		EPA 8082	RES	8	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		EPA 7471	HVK	1	PASI-A
		EPA 8270	BPJ	21	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	EJK	1	PASI-C
92245073005	GSS-603-800-2-1	EPA 8015 Modified	CMI	2	PASI-C

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
92245073006	GSS-603-800-2-2	EPA 8015 Modified	CMI	2	PASI-C		
		EPA 8082	RES	8	PASI-C		
		EPA 8015 Modified	BFW	2	PASI-C		
		EPA 6010	JMW	22	PASI-A		
		EPA 7471	HVK	1	PASI-A		
		EPA 8270	BPJ	21	PASI-C		
		EPA 8260	DLK	70	PASI-C		
		ASTM D2974-87	KDF	1	PASI-C		
		EPA 8015 Modified	CMI	2	PASI-C		
		EPA 8015 Modified	CMI	2	PASI-C		
		EPA 8082	RES	8	PASI-C		
		EPA 8015 Modified	BFW	2	PASI-C		
		EPA 6010	JMW	22	PASI-A		
		EPA 7471	HVK	1	PASI-A		
92245073007	GTW-605-802-7-1	EPA 8270	BPJ	21	PASI-C		
		EPA 8260	DLK	70	PASI-C		
		ASTM D2974-87	KDF	1	PASI-C		
		EPA 8015 Modified	CMI	2	PASI-C		
		EPA 8015 Modified	CMI	2	PASI-C		
		EPA 8082	RES	8	PASI-C		
		EPA 8015 Modified	BFW	2	PASI-C		
		EPA 6010	JMW	22	PASI-A		
		EPA 7471	HVK	1	PASI-A		
		EPA 8270	BPJ	21	PASI-C		
		EPA 8260	DLK	70	PASI-C		
		ASTM D2974-87	KDF	1	PASI-C		
		92245073008	GTW-605-802-6-2	EPA 5030/8015 Mod.	BFW	2	PASI-C
				EPA 8260	GAW	63	PASI-C
92245073009	GTW-605-802-9-2			EPA 8015 Modified	CMI	2	PASI-C
		EPA 8015 Modified	CMI	2	PASI-C		
		EPA 5030/8015 Mod.	BFW	2	PASI-C		
		EPA 6010	JMW	22	PASI-A		
		EPA 7470	HVK	1	PASI-A		
		EPA 8270	BPJ	74	PASI-C		
		EPA 8260	GAW	63	PASI-C		

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92245073001	GSS-603-800-1-1					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	49.9	mg/kg	5.6	04/17/15 05:45	
EPA 8015 Modified	Oil Range Organics (C28-C40)	166	mg/kg	16.9	04/16/15 23:25	
EPA 6010	Aluminum	7830	mg/kg	10.4	04/15/15 15:44	
EPA 6010	Antimony	1.7	mg/kg	0.52	04/15/15 15:44	
EPA 6010	Arsenic	10.7	mg/kg	1.0	04/15/15 15:44	
EPA 6010	Barium	233	mg/kg	0.52	04/15/15 15:44	
EPA 6010	Beryllium	0.62	mg/kg	0.10	04/15/15 15:44	
EPA 6010	Cadmium	1.2	mg/kg	0.10	04/15/15 15:44	
EPA 6010	Calcium	8370	mg/kg	10.4	04/15/15 15:44	
EPA 6010	Chromium	16.0	mg/kg	0.52	04/15/15 15:44	
EPA 6010	Cobalt	5.3	mg/kg	0.52	04/15/15 15:44	
EPA 6010	Copper	67.4	mg/kg	0.52	04/15/15 15:44	
EPA 6010	Iron	13100	mg/kg	209	04/16/15 12:34	
EPA 6010	Lead	157	mg/kg	0.52	04/15/15 15:44	
EPA 6010	Magnesium	736	mg/kg	10.4	04/15/15 15:44	
EPA 6010	Manganese	1020	mg/kg	0.52	04/15/15 15:44	
EPA 6010	Nickel	16.0	mg/kg	0.52	04/15/15 15:44	
EPA 6010	Potassium	670	mg/kg	521	04/15/15 15:44	
EPA 6010	Silver	0.50J	mg/kg	0.52	04/15/15 15:44	
EPA 6010	Sodium	279J	mg/kg	521	04/15/15 15:44	
EPA 6010	Vanadium	25.2	mg/kg	0.52	04/15/15 15:44	
EPA 6010	Zinc	339	mg/kg	1.0	04/15/15 15:44	
EPA 7471	Mercury	0.16	mg/kg	0.020	04/17/15 16:29	
EPA 8270	Benzo(a)anthracene	773J	ug/kg	3720	04/21/15 19:37	
EPA 8270	Benzo(a)pyrene	849J	ug/kg	3720	04/21/15 19:37	
EPA 8270	Benzo(b)fluoranthene	698J	ug/kg	3720	04/21/15 19:37	
EPA 8270	Chrysene	819J	ug/kg	3720	04/21/15 19:37	
EPA 8270	Fluoranthene	1560J	ug/kg	3720	04/21/15 19:37	
EPA 8270	Phenanthrene	901J	ug/kg	3720	04/21/15 19:37	
EPA 8270	Pyrene	1110J	ug/kg	3720	04/21/15 19:37	
EPA 8260	Acetone	68.0J	ug/kg	165	04/15/15 19:19	
ASTM D2974-87	Percent Moisture	11.2	%	0.10	04/14/15 18:21	
92245073002	GSS-603-800-1-2					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	74.0	mg/kg	6.9	04/17/15 06:09	
EPA 8015 Modified	Oil Range Organics (C28-C40)	191	mg/kg	20.8	04/16/15 23:49	
EPA 6010	Aluminum	6220	mg/kg	13.3	04/15/15 15:47	
EPA 6010	Antimony	2.9	mg/kg	0.67	04/15/15 15:47	
EPA 6010	Arsenic	19.3	mg/kg	1.3	04/15/15 15:47	
EPA 6010	Barium	301	mg/kg	0.67	04/15/15 15:47	
EPA 6010	Beryllium	0.75	mg/kg	0.13	04/15/15 15:47	
EPA 6010	Cadmium	0.56	mg/kg	0.13	04/15/15 15:47	
EPA 6010	Calcium	8800	mg/kg	13.3	04/15/15 15:47	
EPA 6010	Chromium	13.2	mg/kg	0.67	04/15/15 15:47	
EPA 6010	Cobalt	6.5	mg/kg	0.67	04/15/15 15:47	
EPA 6010	Copper	56.6	mg/kg	0.67	04/15/15 15:47	
EPA 6010	Iron	33100	mg/kg	266	04/16/15 12:37	
EPA 6010	Lead	583	mg/kg	0.67	04/15/15 15:47	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92245073002	GSS-603-800-1-2					
EPA 6010	Magnesium	942	mg/kg	13.3	04/15/15 15:47	
EPA 6010	Manganese	210	mg/kg	0.67	04/15/15 15:47	
EPA 6010	Nickel	14.7	mg/kg	0.67	04/15/15 15:47	
EPA 6010	Potassium	871	mg/kg	666	04/15/15 15:47	
EPA 6010	Silver	0.89	mg/kg	0.67	04/15/15 15:47	
EPA 6010	Sodium	373J	mg/kg	666	04/15/15 15:47	
EPA 6010	Vanadium	25.7	mg/kg	0.67	04/15/15 15:47	
EPA 6010	Zinc	313	mg/kg	1.3	04/15/15 15:47	
EPA 7471	Mercury	0.64	mg/kg	0.051	04/17/15 16:32	
EPA 8270	Benzo(a)anthracene	1110J	ug/kg	4570	04/21/15 20:04	
EPA 8270	Benzo(a)pyrene	1190J	ug/kg	4570	04/21/15 20:04	
EPA 8270	Benzo(b)fluoranthene	1130J	ug/kg	4570	04/21/15 20:04	
EPA 8270	Chrysene	1410J	ug/kg	4570	04/21/15 20:04	
EPA 8270	Fluoranthene	2400J	ug/kg	4570	04/21/15 20:04	
EPA 8270	Phenanthrene	1950J	ug/kg	4570	04/21/15 20:04	
EPA 8270	Pyrene	1870J	ug/kg	4570	04/21/15 20:04	
ASTM D2974-87	Percent Moisture	27.8	%	0.10	04/14/15 18:21	
92245073003	GSS-603-800-3-1					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	27.1	mg/kg	6.5	04/17/15 06:09	
EPA 8015 Modified	Oil Range Organics (C28-C40)	22.4	mg/kg	19.5	04/16/15 20:38	
EPA 6010	Aluminum	4470	mg/kg	12.5	04/15/15 15:50	
EPA 6010	Antimony	0.61J	mg/kg	0.62	04/15/15 15:50	
EPA 6010	Arsenic	9.6	mg/kg	1.2	04/15/15 15:50	
EPA 6010	Barium	150	mg/kg	0.62	04/15/15 15:50	
EPA 6010	Beryllium	0.48	mg/kg	0.12	04/15/15 15:50	
EPA 6010	Cadmium	0.39	mg/kg	0.12	04/15/15 15:50	
EPA 6010	Calcium	4430	mg/kg	12.5	04/15/15 15:50	
EPA 6010	Chromium	7.9	mg/kg	0.62	04/15/15 15:50	
EPA 6010	Cobalt	4.1	mg/kg	0.62	04/15/15 15:50	
EPA 6010	Copper	50.0	mg/kg	0.62	04/15/15 15:50	
EPA 6010	Iron	2980	mg/kg	12.5	04/15/15 15:50	
EPA 6010	Lead	79.1	mg/kg	0.62	04/15/15 15:50	
EPA 6010	Magnesium	345	mg/kg	12.5	04/15/15 15:50	
EPA 6010	Manganese	66.0	mg/kg	0.62	04/15/15 15:50	
EPA 6010	Nickel	9.2	mg/kg	0.62	04/15/15 15:50	
EPA 6010	Potassium	894	mg/kg	624	04/15/15 15:50	
EPA 6010	Selenium	0.76J	mg/kg	1.2	04/15/15 15:50	
EPA 6010	Vanadium	23.0	mg/kg	0.62	04/15/15 15:50	
EPA 6010	Zinc	148	mg/kg	1.2	04/15/15 15:50	
EPA 7471	Mercury	0.071	mg/kg	0.0057	04/17/15 15:41	
EPA 8270	Fluoranthene	656J	ug/kg	4280	04/21/15 20:32	
EPA 8260	Acetone	77.7J	ug/kg	313	04/15/15 19:39	
ASTM D2974-87	Percent Moisture	22.9	%	0.10	04/14/15 18:21	
92245073004	GSS-603-800-3-2					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	85.2	mg/kg	5.9	04/17/15 06:33	
EPA 8015 Modified	Oil Range Organics (C28-C40)	109	mg/kg	17.8	04/16/15 21:02	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92245073004	GSS-603-800-3-2					
EPA 6010	Aluminum	3420	mg/kg	9.7	04/15/15 15:53	
EPA 6010	Antimony	2.4	mg/kg	0.49	04/15/15 15:53	
EPA 6010	Arsenic	17.6	mg/kg	0.97	04/15/15 15:53	
EPA 6010	Barium	126	mg/kg	0.49	04/15/15 15:53	
EPA 6010	Beryllium	0.24	mg/kg	0.097	04/15/15 15:53	
EPA 6010	Cadmium	0.54	mg/kg	0.097	04/15/15 15:53	
EPA 6010	Calcium	6950	mg/kg	9.7	04/15/15 15:53	
EPA 6010	Chromium	13.9	mg/kg	0.49	04/15/15 15:53	
EPA 6010	Cobalt	5.4	mg/kg	0.49	04/15/15 15:53	
EPA 6010	Copper	67.4	mg/kg	0.49	04/15/15 15:53	
EPA 6010	Iron	19800	mg/kg	194	04/16/15 12:40	
EPA 6010	Lead	500	mg/kg	0.49	04/15/15 15:53	
EPA 6010	Magnesium	1160	mg/kg	9.7	04/15/15 15:53	
EPA 6010	Manganese	165	mg/kg	0.49	04/15/15 15:53	
EPA 6010	Nickel	12.6	mg/kg	0.49	04/15/15 15:53	
EPA 6010	Potassium	551	mg/kg	485	04/15/15 15:53	
EPA 6010	Silver	0.53	mg/kg	0.49	04/15/15 15:53	
EPA 6010	Vanadium	15.8	mg/kg	0.49	04/15/15 15:53	
EPA 6010	Zinc	518	mg/kg	0.97	04/15/15 15:53	
EPA 7471	Mercury	0.42	mg/kg	0.044	04/17/15 16:35	
EPA 8260	Acetone	53.5J	ug/kg	97.2	04/15/15 19:58	
ASTM D2974-87	Percent Moisture	15.6	%	0.10	04/14/15 18:21	
92245073005	GSS-603-800-2-1					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	67.0	mg/kg	6.2	04/17/15 06:33	
EPA 8015 Modified	Oil Range Organics (C28-C40)	133	mg/kg	18.5	04/16/15 21:26	
EPA 6010	Aluminum	4660	mg/kg	11.2	04/20/15 14:15	
EPA 6010	Antimony	1.4	mg/kg	0.56	04/20/15 14:15	
EPA 6010	Arsenic	16.0	mg/kg	1.1	04/20/15 14:15	
EPA 6010	Barium	211	mg/kg	0.56	04/20/15 14:15	
EPA 6010	Beryllium	0.55	mg/kg	0.11	04/20/15 14:15	
EPA 6010	Cadmium	2.1	mg/kg	0.11	04/20/15 14:15	
EPA 6010	Calcium	10800	mg/kg	11.2	04/20/15 14:15	
EPA 6010	Chromium	25.2	mg/kg	0.56	04/20/15 14:15	
EPA 6010	Cobalt	6.4	mg/kg	0.56	04/20/15 14:15	
EPA 6010	Copper	211	mg/kg	0.56	04/20/15 14:15	
EPA 6010	Iron	65800	mg/kg	224	04/20/15 14:36	
EPA 6010	Lead	333	mg/kg	0.56	04/20/15 14:15	
EPA 6010	Magnesium	508	mg/kg	11.2	04/20/15 14:15	
EPA 6010	Manganese	190	mg/kg	0.56	04/20/15 14:15	
EPA 6010	Nickel	40.1	mg/kg	0.56	04/20/15 14:15	
EPA 6010	Potassium	1040	mg/kg	561	04/20/15 14:15	
EPA 6010	Silver	1.4	mg/kg	0.56	04/20/15 14:15	
EPA 6010	Vanadium	33.2	mg/kg	0.56	04/20/15 14:15	
EPA 6010	Zinc	712	mg/kg	1.1	04/20/15 14:15	
EPA 7471	Mercury	0.30	mg/kg	0.058	04/17/15 13:08	
EPA 8270	Chrysene	631J	ug/kg	4070	04/21/15 21:28	
EPA 8270	Fluoranthene	1330J	ug/kg	4070	04/21/15 21:28	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92245073005	GSS-603-800-2-1					
EPA 8270	Phenanthrene	995J	ug/kg	4070	04/21/15 21:28	
EPA 8270	Pyrene	906J	ug/kg	4070	04/21/15 21:28	
EPA 8260	Acetone	74.2J	ug/kg	200	04/14/15 21:28	
EPA 8260	Methylene Chloride	55.9	ug/kg	40.0	04/14/15 21:28	C9
ASTM D2974-87	Percent Moisture	19.0	%	0.10	04/16/15 10:41	
92245073006	GSS-603-800-2-2					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	28.8	mg/kg	6.4	04/17/15 06:57	
EPA 8015 Modified	Oil Range Organics (C28-C40)	30.6	mg/kg	19.3	04/16/15 21:50	
EPA 6010	Aluminum	7370	mg/kg	11.1	04/15/15 16:05	
EPA 6010	Antimony	3.6	mg/kg	0.55	04/15/15 16:05	
EPA 6010	Arsenic	23.3	mg/kg	1.1	04/15/15 16:05	
EPA 6010	Barium	487	mg/kg	0.55	04/15/15 16:05	
EPA 6010	Beryllium	0.49	mg/kg	0.11	04/15/15 16:05	
EPA 6010	Cadmium	2.4	mg/kg	0.11	04/15/15 16:05	
EPA 6010	Calcium	78200	mg/kg	222	04/16/15 12:43	
EPA 6010	Chromium	17.6	mg/kg	0.55	04/15/15 16:05	
EPA 6010	Cobalt	8.0	mg/kg	0.55	04/15/15 16:05	
EPA 6010	Copper	60.8	mg/kg	0.55	04/15/15 16:05	
EPA 6010	Iron	7550	mg/kg	11.1	04/15/15 16:05	
EPA 6010	Lead	640	mg/kg	0.55	04/15/15 16:05	
EPA 6010	Magnesium	934	mg/kg	11.1	04/15/15 16:05	
EPA 6010	Manganese	364	mg/kg	0.55	04/15/15 16:05	
EPA 6010	Nickel	18.6	mg/kg	0.55	04/15/15 16:05	
EPA 6010	Potassium	1090	mg/kg	554	04/15/15 16:05	
EPA 6010	Selenium	5.1	mg/kg	1.1	04/15/15 16:05	
EPA 6010	Silver	1.4	mg/kg	0.55	04/15/15 16:05	
EPA 6010	Sodium	1600	mg/kg	554	04/15/15 16:05	
EPA 6010	Vanadium	30.1	mg/kg	0.55	04/15/15 16:05	
EPA 6010	Zinc	1690	mg/kg	22.2	04/16/15 12:43	
EPA 7471	Mercury	0.093	mg/kg	0.0047	04/17/15 15:54	
EPA 8260	Methylene Chloride	13.4J	ug/kg	38.9	04/14/15 21:48	
ASTM D2974-87	Percent Moisture	22.3	%	0.10	04/16/15 10:41	
92245073007	GTW-605-802-7-1					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	299	mg/kg	6.4	04/17/15 06:57	
EPA 8015 Modified	Oil Range Organics (C28-C40)	319	mg/kg	19.3	04/16/15 22:13	
EPA 8015 Modified	Gas Range Organics (C6-C10)	10.7	mg/kg	7.7	04/15/15 23:51	
EPA 6010	Aluminum	4400	mg/kg	11.9	04/15/15 16:09	
EPA 6010	Antimony	2.4	mg/kg	0.60	04/15/15 16:09	
EPA 6010	Arsenic	3.9	mg/kg	1.2	04/15/15 16:09	
EPA 6010	Barium	53.2	mg/kg	0.60	04/15/15 16:09	
EPA 6010	Beryllium	0.91	mg/kg	0.12	04/15/15 16:09	
EPA 6010	Cadmium	0.25	mg/kg	0.12	04/15/15 16:09	
EPA 6010	Calcium	4120	mg/kg	11.9	04/15/15 16:09	
EPA 6010	Chromium	9.8	mg/kg	0.60	04/15/15 16:09	
EPA 6010	Cobalt	3.9	mg/kg	0.60	04/15/15 16:09	
EPA 6010	Copper	53.1	mg/kg	0.60	04/15/15 16:09	

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SUMMARY OF DETECTION

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92245073007	GTW-605-802-7-1					
EPA 6010	Iron	14700	mg/kg	238	04/16/15 12:46	
EPA 6010	Lead	62.1	mg/kg	0.60	04/15/15 16:09	
EPA 6010	Magnesium	392	mg/kg	11.9	04/15/15 16:09	
EPA 6010	Manganese	57.6	mg/kg	0.60	04/15/15 16:09	
EPA 6010	Nickel	9.6	mg/kg	0.60	04/15/15 16:09	
EPA 6010	Silver	0.73	mg/kg	0.60	04/15/15 16:09	
EPA 6010	Vanadium	19.8	mg/kg	0.60	04/15/15 16:09	
EPA 6010	Zinc	41.7	mg/kg	1.2	04/15/15 16:09	
EPA 7471	Mercury	0.021	mg/kg	0.0055	04/17/15 15:58	
EPA 8270	1-Methylnaphthalene	2840J	ug/kg	6370	04/21/15 22:24	
EPA 8270	2-Methylnaphthalene	3420J	ug/kg	6370	04/21/15 22:24	
EPA 8270	Naphthalene	2750J	ug/kg	6370	04/21/15 22:24	
EPA 8270	Phenanthrene	1670J	ug/kg	6370	04/21/15 22:24	
EPA 8260	Acetone	173J	ug/kg	193	04/15/15 20:38	
EPA 8260	Methylene Chloride	21.6J	ug/kg	38.5	04/15/15 20:38	
ASTM D2974-87	Percent Moisture	22.3	%	0.10	04/16/15 10:41	
92245073008	GTW-605-802-6-2					
EPA 8260	Methylene Chloride	42.4	ug/L	20.0	04/17/15 18:20	
92245073009	GTW-605-802-9-2					
EPA 6010	Aluminum	24300	ug/L	100	04/15/15 20:56	
EPA 6010	Antimony	6.9	ug/L	5.0	04/15/15 20:56	
EPA 6010	Arsenic	10.6	ug/L	10.0	04/15/15 20:56	
EPA 6010	Barium	359	ug/L	5.0	04/15/15 20:56	
EPA 6010	Beryllium	1.5	ug/L	1.0	04/15/15 20:56	
EPA 6010	Cadmium	1.3	ug/L	1.0	04/15/15 20:56	
EPA 6010	Calcium	125000	ug/L	1000	04/16/15 12:28	
EPA 6010	Chromium	41.6	ug/L	5.0	04/15/15 20:56	
EPA 6010	Cobalt	82.2	ug/L	5.0	04/15/15 20:56	
EPA 6010	Copper	42.2	ug/L	5.0	04/15/15 20:56	
EPA 6010	Iron	45600	ug/L	50.0	04/15/15 20:56	
EPA 6010	Lead	30.2	ug/L	5.0	04/15/15 20:56	
EPA 6010	Magnesium	73900	ug/L	100	04/15/15 20:56	
EPA 6010	Manganese	17600	ug/L	50.0	04/16/15 12:28	
EPA 6010	Nickel	41.6	ug/L	5.0	04/15/15 20:56	
EPA 6010	Potassium	8780	ug/L	5000	04/15/15 20:56	
EPA 6010	Silver	3.9J	ug/L	5.0	04/15/15 20:56	
EPA 6010	Sodium	411000	ug/L	50000	04/16/15 12:28	
EPA 6010	Vanadium	69.8	ug/L	5.0	04/15/15 20:56	
EPA 6010	Zinc	107	ug/L	10.0	04/15/15 20:56	
EPA 8260	Methylene Chloride	11.7J	ug/L	20.0	04/17/15 18:38	
EPA 8260	Methyl-tert-butyl ether	9.9J	ug/L	10.0	04/17/15 18:38	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-1-1 **Lab ID: 92245073001** Collected: 04/10/15 08:00 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	49.9	mg/kg	5.6	5.1	1	04/15/15 16:45	04/17/15 05:45		
Surrogates									
n-Pentacosane (S)	71	%	41-119		1	04/15/15 16:45	04/17/15 05:45	629-99-2	
8015 GCS THC-ORO Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Oil Range Organics (C28-C40)	166	mg/kg	16.9	12.4	1	04/15/15 18:12	04/16/15 23:25		
Surrogates									
n-Pentacosane (S)	93	%	41-119		1	04/15/15 18:12	04/16/15 23:25	629-99-2	
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	372	169	10	04/16/15 16:44	04/17/15 20:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	372	169	10	04/16/15 16:44	04/17/15 20:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	372	169	10	04/16/15 16:44	04/17/15 20:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	372	169	10	04/16/15 16:44	04/17/15 20:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	372	169	10	04/16/15 16:44	04/17/15 20:09	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	372	169	10	04/16/15 16:44	04/17/15 20:09	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	372	169	10	04/16/15 16:44	04/17/15 20:09	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	0	%	21-132		10	04/16/15 16:44	04/17/15 20:09	2051-24-3	D3,S4
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	9.9	9.9	1	04/15/15 14:14	04/15/15 21:14		
Surrogates									
4-Bromofluorobenzene (S)	121	%	70-167		1	04/15/15 14:14	04/15/15 21:14	460-00-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	7830	mg/kg	10.4	5.2	1	04/14/15 16:45	04/15/15 15:44	7429-90-5	
Antimony	1.7	mg/kg	0.52	0.41	1	04/14/15 16:45	04/15/15 15:44	7440-36-0	
Arsenic	10.7	mg/kg	1.0	0.52	1	04/14/15 16:45	04/15/15 15:44	7440-38-2	
Barium	233	mg/kg	0.52	0.26	1	04/14/15 16:45	04/15/15 15:44	7440-39-3	
Beryllium	0.62	mg/kg	0.10	0.052	1	04/14/15 16:45	04/15/15 15:44	7440-41-7	
Cadmium	1.2	mg/kg	0.10	0.052	1	04/14/15 16:45	04/15/15 15:44	7440-43-9	
Calcium	8370	mg/kg	10.4	5.2	1	04/14/15 16:45	04/15/15 15:44	7440-70-2	
Chromium	16.0	mg/kg	0.52	0.26	1	04/14/15 16:45	04/15/15 15:44	7440-47-3	
Cobalt	5.3	mg/kg	0.52	0.26	1	04/14/15 16:45	04/15/15 15:44	7440-48-4	
Copper	67.4	mg/kg	0.52	0.26	1	04/14/15 16:45	04/15/15 15:44	7440-50-8	
Iron	13100	mg/kg	209	104	20	04/14/15 16:45	04/16/15 12:34	7439-89-6	
Lead	157	mg/kg	0.52	0.26	1	04/14/15 16:45	04/15/15 15:44	7439-92-1	
Magnesium	736	mg/kg	10.4	0.26	1	04/14/15 16:45	04/15/15 15:44	7439-95-4	
Manganese	1020	mg/kg	0.52	0.26	1	04/14/15 16:45	04/15/15 15:44	7439-96-5	
Nickel	16.0	mg/kg	0.52	0.26	1	04/14/15 16:45	04/15/15 15:44	7440-02-0	
Potassium	670	mg/kg	521	521	1	04/14/15 16:45	04/15/15 15:44	7440-09-7	
Selenium	ND	mg/kg	1.0	0.52	1	04/14/15 16:45	04/15/15 15:44	7782-49-2	
Silver	0.50J	mg/kg	0.52	0.26	1	04/14/15 16:45	04/15/15 15:44	7440-22-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-1-1 **Lab ID: 92245073001** Collected: 04/10/15 08:00 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Sodium	279J	mg/kg	521	261	1	04/14/15 16:45	04/15/15 15:44	7440-23-5	
Thallium	ND	mg/kg	1.0	0.52	1	04/14/15 16:45	04/15/15 15:44	7440-28-0	
Vanadium	25.2	mg/kg	0.52	0.26	1	04/14/15 16:45	04/15/15 15:44	7440-62-2	
Zinc	339	mg/kg	1.0	0.52	1	04/14/15 16:45	04/15/15 15:44	7440-66-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.16	mg/kg	0.020	0.00040	5	04/15/15 17:40	04/17/15 16:29	7439-97-6	
8270 MSSV PAH Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	3720	856	10	04/21/15 11:30	04/21/15 19:37	83-32-9	
Acenaphthylene	ND	ug/kg	3720	878	10	04/21/15 11:30	04/21/15 19:37	208-96-8	
Anthracene	ND	ug/kg	3720	833	10	04/21/15 11:30	04/21/15 19:37	120-12-7	
Benzo(a)anthracene	773J	ug/kg	3720	687	10	04/21/15 11:30	04/21/15 19:37	56-55-3	
Benzo(a)pyrene	849J	ug/kg	3720	709	10	04/21/15 11:30	04/21/15 19:37	50-32-8	
Benzo(b)fluoranthene	698J	ug/kg	3720	642	10	04/21/15 11:30	04/21/15 19:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	3720	946	10	04/21/15 11:30	04/21/15 19:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	3720	732	10	04/21/15 11:30	04/21/15 19:37	207-08-9	
Chrysene	819J	ug/kg	3720	496	10	04/21/15 11:30	04/21/15 19:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	3720	788	10	04/21/15 11:30	04/21/15 19:37	53-70-3	
Fluoranthene	1560J	ug/kg	3720	541	10	04/21/15 11:30	04/21/15 19:37	206-44-0	
Fluorene	ND	ug/kg	3720	766	10	04/21/15 11:30	04/21/15 19:37	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	3720	766	10	04/21/15 11:30	04/21/15 19:37	193-39-5	
1-Methylnaphthalene	ND	ug/kg	3720	969	10	04/21/15 11:30	04/21/15 19:37	90-12-0	
2-Methylnaphthalene	ND	ug/kg	3720	800	10	04/21/15 11:30	04/21/15 19:37	91-57-6	
Naphthalene	ND	ug/kg	3720	912	10	04/21/15 11:30	04/21/15 19:37	91-20-3	
Phenanthrene	901J	ug/kg	3720	619	10	04/21/15 11:30	04/21/15 19:37	85-01-8	
Pyrene	1110J	ug/kg	3720	631	10	04/21/15 11:30	04/21/15 19:37	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	0	%	23-110		10	04/21/15 11:30	04/21/15 19:37	4165-60-0	D3,S4
2-Fluorobiphenyl (S)	0	%	30-110		10	04/21/15 11:30	04/21/15 19:37	321-60-8	S4
Terphenyl-d14 (S)	0	%	28-110		10	04/21/15 11:30	04/21/15 19:37	1718-51-0	S4
8260/5035A Volatile Organics Analytical Method: EPA 8260									
Acetone	68.0J	ug/kg	165	16.5	1		04/15/15 19:19	67-64-1	
Benzene	ND	ug/kg	8.2	2.6	1		04/15/15 19:19	71-43-2	
Bromobenzene	ND	ug/kg	8.2	3.3	1		04/15/15 19:19	108-86-1	
Bromochloromethane	ND	ug/kg	8.2	2.8	1		04/15/15 19:19	74-97-5	
Bromodichloromethane	ND	ug/kg	8.2	3.1	1		04/15/15 19:19	75-27-4	
Bromoform	ND	ug/kg	8.2	3.8	1		04/15/15 19:19	75-25-2	
Bromomethane	ND	ug/kg	16.5	4.1	1		04/15/15 19:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	165	4.8	1		04/15/15 19:19	78-93-3	
n-Butylbenzene	ND	ug/kg	8.2	3.0	1		04/15/15 19:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	8.2	2.6	1		04/15/15 19:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	8.2	3.3	1		04/15/15 19:19	98-06-6	
Carbon tetrachloride	ND	ug/kg	8.2	4.3	1		04/15/15 19:19	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-1-1 **Lab ID: 92245073001** Collected: 04/10/15 08:00 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/kg	8.2	3.1	1		04/15/15 19:19	108-90-7	
Chloroethane	ND	ug/kg	16.5	4.0	1		04/15/15 19:19	75-00-3	
Chloroform	ND	ug/kg	8.2	2.6	1		04/15/15 19:19	67-66-3	
Chloromethane	ND	ug/kg	16.5	4.0	1		04/15/15 19:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	8.2	2.8	1		04/15/15 19:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	8.2	3.0	1		04/15/15 19:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	8.2	5.9	1		04/15/15 19:19	96-12-8	
Dibromochloromethane	ND	ug/kg	8.2	3.0	1		04/15/15 19:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	8.2	3.0	1		04/15/15 19:19	106-93-4	
Dibromomethane	ND	ug/kg	8.2	4.1	1		04/15/15 19:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	8.2	3.1	1		04/15/15 19:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	8.2	3.3	1		04/15/15 19:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	8.2	2.8	1		04/15/15 19:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	16.5	5.9	1		04/15/15 19:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	8.2	2.5	1		04/15/15 19:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	8.2	3.6	1		04/15/15 19:19	107-06-2	
1,1-Dichloroethene	ND	ug/kg	8.2	3.0	1		04/15/15 19:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	8.2	2.3	1		04/15/15 19:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	8.2	3.1	1		04/15/15 19:19	156-60-5	
1,2-Dichloropropane	ND	ug/kg	8.2	2.8	1		04/15/15 19:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	8.2	3.1	1		04/15/15 19:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	8.2	2.8	1		04/15/15 19:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	8.2	2.5	1		04/15/15 19:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	8.2	3.0	1		04/15/15 19:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	8.2	2.5	1		04/15/15 19:19	10061-02-6	
Diisopropyl ether	ND	ug/kg	8.2	2.8	1		04/15/15 19:19	108-20-3	
Ethylbenzene	ND	ug/kg	8.2	3.0	1		04/15/15 19:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	8.2	3.3	1		04/15/15 19:19	87-68-3	
2-Hexanone	ND	ug/kg	82.3	6.4	1		04/15/15 19:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	8.2	3.1	1		04/15/15 19:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	8.2	2.8	1		04/15/15 19:19	99-87-6	
Methylene Chloride	ND	ug/kg	32.9	4.9	1		04/15/15 19:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	82.3	6.1	1		04/15/15 19:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	8.2	2.5	1		04/15/15 19:19	1634-04-4	
Naphthalene	ND	ug/kg	8.2	2.0	1		04/15/15 19:19	91-20-3	
n-Propylbenzene	ND	ug/kg	8.2	2.8	1		04/15/15 19:19	103-65-1	
Styrene	ND	ug/kg	8.2	3.0	1		04/15/15 19:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	8.2	3.5	1		04/15/15 19:19	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	8.2	3.1	1		04/15/15 19:19	79-34-5	
Tetrachloroethene	ND	ug/kg	8.2	2.8	1		04/15/15 19:19	127-18-4	
Toluene	ND	ug/kg	8.2	3.0	1		04/15/15 19:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	8.2	3.6	1		04/15/15 19:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	8.2	2.6	1		04/15/15 19:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	8.2	3.0	1		04/15/15 19:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	8.2	3.5	1		04/15/15 19:19	79-00-5	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-1-1 **Lab ID: 92245073001** Collected: 04/10/15 08:00 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Trichloroethene	ND	ug/kg	8.2	3.5	1		04/15/15 19:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	8.2	3.6	1		04/15/15 19:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	8.2	2.6	1		04/15/15 19:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	8.2	3.3	1		04/15/15 19:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	8.2	3.0	1		04/15/15 19:19	108-67-8	
Vinyl acetate	ND	ug/kg	82.3	14.5	1		04/15/15 19:19	108-05-4	
Vinyl chloride	ND	ug/kg	16.5	3.0	1		04/15/15 19:19	75-01-4	
Xylene (Total)	ND	ug/kg	16.5	5.9	1		04/15/15 19:19	1330-20-7	
m&p-Xylene	ND	ug/kg	16.5	5.9	1		04/15/15 19:19	179601-23-1	
o-Xylene	ND	ug/kg	8.2	3.1	1		04/15/15 19:19	95-47-6	
Surrogates									
Toluene-d8 (S)	88	%	70-130		1		04/15/15 19:19	2037-26-5	IO
4-Bromofluorobenzene (S)	64	%	70-130		1		04/15/15 19:19	460-00-4	S0
1,2-Dichloroethane-d4 (S)	150	%	70-132		1		04/15/15 19:19	17060-07-0	S3
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	11.2	%	0.10	0.10	1		04/14/15 18:21		

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-1-2 **Lab ID: 92245073002** Collected: 04/10/15 08:15 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	74.0	mg/kg	6.9	6.2	1	04/15/15 16:45	04/17/15 06:09		
Surrogates									
n-Pentacosane (S)	62	%	41-119		1	04/15/15 16:45	04/17/15 06:09	629-99-2	
8015 GCS THC-ORO									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Oil Range Organics (C28-C40)	191	mg/kg	20.8	15.2	1	04/15/15 18:12	04/16/15 23:49		
Surrogates									
n-Pentacosane (S)	88	%	41-119		1	04/15/15 18:12	04/16/15 23:49	629-99-2	
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	229	104	5	04/16/15 16:44	04/17/15 20:29	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	229	104	5	04/16/15 16:44	04/17/15 20:29	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	229	104	5	04/16/15 16:44	04/17/15 20:29	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	229	104	5	04/16/15 16:44	04/17/15 20:29	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	229	104	5	04/16/15 16:44	04/17/15 20:29	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	229	104	5	04/16/15 16:44	04/17/15 20:29	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	229	104	5	04/16/15 16:44	04/17/15 20:29	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	0	%	21-132		5	04/16/15 16:44	04/17/15 20:29	2051-24-3	D3,S4
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	15.3	15.3	1	04/15/15 14:14	04/15/15 21:40		
Surrogates									
4-Bromofluorobenzene (S)	123	%	70-167		1	04/15/15 14:14	04/15/15 21:40	460-00-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	6220	mg/kg	13.3	6.7	1	04/14/15 16:45	04/15/15 15:47	7429-90-5	
Antimony	2.9	mg/kg	0.67	0.52	1	04/14/15 16:45	04/15/15 15:47	7440-36-0	
Arsenic	19.3	mg/kg	1.3	0.67	1	04/14/15 16:45	04/15/15 15:47	7440-38-2	
Barium	301	mg/kg	0.67	0.33	1	04/14/15 16:45	04/15/15 15:47	7440-39-3	
Beryllium	0.75	mg/kg	0.13	0.067	1	04/14/15 16:45	04/15/15 15:47	7440-41-7	
Cadmium	0.56	mg/kg	0.13	0.067	1	04/14/15 16:45	04/15/15 15:47	7440-43-9	
Calcium	8800	mg/kg	13.3	6.7	1	04/14/15 16:45	04/15/15 15:47	7440-70-2	
Chromium	13.2	mg/kg	0.67	0.33	1	04/14/15 16:45	04/15/15 15:47	7440-47-3	
Cobalt	6.5	mg/kg	0.67	0.33	1	04/14/15 16:45	04/15/15 15:47	7440-48-4	
Copper	56.6	mg/kg	0.67	0.33	1	04/14/15 16:45	04/15/15 15:47	7440-50-8	
Iron	33100	mg/kg	266	133	20	04/14/15 16:45	04/16/15 12:37	7439-89-6	
Lead	583	mg/kg	0.67	0.33	1	04/14/15 16:45	04/15/15 15:47	7439-92-1	
Magnesium	942	mg/kg	13.3	0.33	1	04/14/15 16:45	04/15/15 15:47	7439-95-4	
Manganese	210	mg/kg	0.67	0.33	1	04/14/15 16:45	04/15/15 15:47	7439-96-5	
Nickel	14.7	mg/kg	0.67	0.33	1	04/14/15 16:45	04/15/15 15:47	7440-02-0	
Potassium	871	mg/kg	666	666	1	04/14/15 16:45	04/15/15 15:47	7440-09-7	
Selenium	ND	mg/kg	1.3	0.67	1	04/14/15 16:45	04/15/15 15:47	7782-49-2	
Silver	0.89	mg/kg	0.67	0.33	1	04/14/15 16:45	04/15/15 15:47	7440-22-4	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: **GSS-603-800-1-2** Lab ID: **92245073002** Collected: 04/10/15 08:15 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Sodium	373J	mg/kg	666	333	1	04/14/15 16:45	04/15/15 15:47	7440-23-5	
Thallium	ND	mg/kg	1.3	0.67	1	04/14/15 16:45	04/15/15 15:47	7440-28-0	
Vanadium	25.7	mg/kg	0.67	0.33	1	04/14/15 16:45	04/15/15 15:47	7440-62-2	
Zinc	313	mg/kg	1.3	0.67	1	04/14/15 16:45	04/15/15 15:47	7440-66-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.64	mg/kg	0.051	0.0010	10	04/15/15 17:40	04/17/15 16:32	7439-97-6	
8270 MSSV PAH Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	4570	1050	10	04/21/15 11:30	04/21/15 20:04	83-32-9	
Acenaphthylene	ND	ug/kg	4570	1080	10	04/21/15 11:30	04/21/15 20:04	208-96-8	
Anthracene	ND	ug/kg	4570	1030	10	04/21/15 11:30	04/21/15 20:04	120-12-7	
Benzo(a)anthracene	1110J	ug/kg	4570	845	10	04/21/15 11:30	04/21/15 20:04	56-55-3	
Benzo(a)pyrene	1190J	ug/kg	4570	873	10	04/21/15 11:30	04/21/15 20:04	50-32-8	
Benzo(b)fluoranthene	1130J	ug/kg	4570	790	10	04/21/15 11:30	04/21/15 20:04	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	4570	1160	10	04/21/15 11:30	04/21/15 20:04	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	4570	901	10	04/21/15 11:30	04/21/15 20:04	207-08-9	
Chrysene	1410J	ug/kg	4570	610	10	04/21/15 11:30	04/21/15 20:04	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4570	970	10	04/21/15 11:30	04/21/15 20:04	53-70-3	
Fluoranthene	2400J	ug/kg	4570	665	10	04/21/15 11:30	04/21/15 20:04	206-44-0	
Fluorene	ND	ug/kg	4570	942	10	04/21/15 11:30	04/21/15 20:04	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4570	942	10	04/21/15 11:30	04/21/15 20:04	193-39-5	
1-Methylnaphthalene	ND	ug/kg	4570	1190	10	04/21/15 11:30	04/21/15 20:04	90-12-0	
2-Methylnaphthalene	ND	ug/kg	4570	984	10	04/21/15 11:30	04/21/15 20:04	91-57-6	
Naphthalene	ND	ug/kg	4570	1120	10	04/21/15 11:30	04/21/15 20:04	91-20-3	
Phenanthrene	1950J	ug/kg	4570	762	10	04/21/15 11:30	04/21/15 20:04	85-01-8	
Pyrene	1870J	ug/kg	4570	776	10	04/21/15 11:30	04/21/15 20:04	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	0	%	23-110		10	04/21/15 11:30	04/21/15 20:04	4165-60-0	D3,S4
2-Fluorobiphenyl (S)	0	%	30-110		10	04/21/15 11:30	04/21/15 20:04	321-60-8	S4
Terphenyl-d14 (S)	0	%	28-110		10	04/21/15 11:30	04/21/15 20:04	1718-51-0	S4
8260/5035A Volatile Organics Analytical Method: EPA 8260									
Acetone	ND	ug/kg	222	22.2	1		04/14/15 20:29	67-64-1	
Benzene	ND	ug/kg	11.1	3.6	1		04/14/15 20:29	71-43-2	
Bromobenzene	ND	ug/kg	11.1	4.4	1		04/14/15 20:29	108-86-1	
Bromochloromethane	ND	ug/kg	11.1	3.8	1		04/14/15 20:29	74-97-5	
Bromodichloromethane	ND	ug/kg	11.1	4.2	1		04/14/15 20:29	75-27-4	
Bromoform	ND	ug/kg	11.1	5.1	1		04/14/15 20:29	75-25-2	
Bromomethane	ND	ug/kg	22.2	5.6	1		04/14/15 20:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	222	6.4	1		04/14/15 20:29	78-93-3	
n-Butylbenzene	ND	ug/kg	11.1	4.0	1		04/14/15 20:29	104-51-8	
sec-Butylbenzene	ND	ug/kg	11.1	3.6	1		04/14/15 20:29	135-98-8	
tert-Butylbenzene	ND	ug/kg	11.1	4.4	1		04/14/15 20:29	98-06-6	
Carbon tetrachloride	ND	ug/kg	11.1	5.8	1		04/14/15 20:29	56-23-5	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-1-2 **Lab ID: 92245073002** Collected: 04/10/15 08:15 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/kg	11.1	4.2	1		04/14/15 20:29	108-90-7	
Chloroethane	ND	ug/kg	22.2	5.3	1		04/14/15 20:29	75-00-3	
Chloroform	ND	ug/kg	11.1	3.6	1		04/14/15 20:29	67-66-3	
Chloromethane	ND	ug/kg	22.2	5.3	1		04/14/15 20:29	74-87-3	
2-Chlorotoluene	ND	ug/kg	11.1	3.8	1		04/14/15 20:29	95-49-8	
4-Chlorotoluene	ND	ug/kg	11.1	4.0	1		04/14/15 20:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	11.1	8.0	1		04/14/15 20:29	96-12-8	
Dibromochloromethane	ND	ug/kg	11.1	4.0	1		04/14/15 20:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	11.1	4.0	1		04/14/15 20:29	106-93-4	
Dibromomethane	ND	ug/kg	11.1	5.6	1		04/14/15 20:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	11.1	4.2	1		04/14/15 20:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	11.1	4.4	1		04/14/15 20:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	11.1	3.8	1		04/14/15 20:29	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	22.2	8.0	1		04/14/15 20:29	75-71-8	
1,1-Dichloroethane	ND	ug/kg	11.1	3.3	1		04/14/15 20:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	11.1	4.9	1		04/14/15 20:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	11.1	4.0	1		04/14/15 20:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	11.1	3.1	1		04/14/15 20:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	11.1	4.2	1		04/14/15 20:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	11.1	3.8	1		04/14/15 20:29	78-87-5	
1,3-Dichloropropane	ND	ug/kg	11.1	4.2	1		04/14/15 20:29	142-28-9	
2,2-Dichloropropane	ND	ug/kg	11.1	3.8	1		04/14/15 20:29	594-20-7	
1,1-Dichloropropene	ND	ug/kg	11.1	3.3	1		04/14/15 20:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	11.1	4.0	1		04/14/15 20:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	11.1	3.3	1		04/14/15 20:29	10061-02-6	
Diisopropyl ether	ND	ug/kg	11.1	3.8	1		04/14/15 20:29	108-20-3	
Ethylbenzene	ND	ug/kg	11.1	4.0	1		04/14/15 20:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	11.1	4.4	1		04/14/15 20:29	87-68-3	
2-Hexanone	ND	ug/kg	111	8.7	1		04/14/15 20:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	11.1	4.2	1		04/14/15 20:29	98-82-8	
p-Isopropyltoluene	ND	ug/kg	11.1	3.8	1		04/14/15 20:29	99-87-6	
Methylene Chloride	ND	ug/kg	44.4	6.7	1		04/14/15 20:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	111	8.2	1		04/14/15 20:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	11.1	3.3	1		04/14/15 20:29	1634-04-4	
Naphthalene	ND	ug/kg	11.1	2.7	1		04/14/15 20:29	91-20-3	
n-Propylbenzene	ND	ug/kg	11.1	3.8	1		04/14/15 20:29	103-65-1	
Styrene	ND	ug/kg	11.1	4.0	1		04/14/15 20:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	11.1	4.7	1		04/14/15 20:29	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	11.1	4.2	1		04/14/15 20:29	79-34-5	
Tetrachloroethene	ND	ug/kg	11.1	3.8	1		04/14/15 20:29	127-18-4	
Toluene	ND	ug/kg	11.1	4.0	1		04/14/15 20:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	11.1	4.9	1		04/14/15 20:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	11.1	3.6	1		04/14/15 20:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	11.1	4.0	1		04/14/15 20:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	11.1	4.7	1		04/14/15 20:29	79-00-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-1-2 **Lab ID: 92245073002** Collected: 04/10/15 08:15 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Trichloroethene	ND	ug/kg	11.1	4.7	1		04/14/15 20:29	79-01-6	
Trichlorofluoromethane	ND	ug/kg	11.1	4.9	1		04/14/15 20:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	11.1	3.6	1		04/14/15 20:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	11.1	4.4	1		04/14/15 20:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	11.1	4.0	1		04/14/15 20:29	108-67-8	
Vinyl acetate	ND	ug/kg	111	19.5	1		04/14/15 20:29	108-05-4	
Vinyl chloride	ND	ug/kg	22.2	4.0	1		04/14/15 20:29	75-01-4	
Xylene (Total)	ND	ug/kg	22.2	8.0	1		04/14/15 20:29	1330-20-7	
m&p-Xylene	ND	ug/kg	22.2	8.0	1		04/14/15 20:29	179601-23-1	
o-Xylene	ND	ug/kg	11.1	4.2	1		04/14/15 20:29	95-47-6	
Surrogates									
Toluene-d8 (S)	93	%	70-130		1		04/14/15 20:29	2037-26-5	2g
4-Bromofluorobenzene (S)	76	%	70-130		1		04/14/15 20:29	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%	70-132		1		04/14/15 20:29	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	27.8	%	0.10	0.10	1		04/14/15 18:21		

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-3-1 **Lab ID: 92245073003** Collected: 04/10/15 08:45 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	27.1	mg/kg	6.5	5.8	1	04/15/15 16:45	04/17/15 06:09		
Surrogates									
n-Pentacosane (S)	64	%	41-119		1	04/15/15 16:45	04/17/15 06:09	629-99-2	
8015 GCS THC-ORO									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Oil Range Organics (C28-C40)	22.4	mg/kg	19.5	14.3	1	04/15/15 18:12	04/16/15 20:38		
Surrogates									
n-Pentacosane (S)	76	%	41-119		1	04/15/15 18:12	04/16/15 20:38	629-99-2	
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	214	97.3	5	04/16/15 16:44	04/17/15 20:50	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	214	97.3	5	04/16/15 16:44	04/17/15 20:50	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	214	97.3	5	04/16/15 16:44	04/17/15 20:50	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	214	97.3	5	04/16/15 16:44	04/17/15 20:50	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	214	97.3	5	04/16/15 16:44	04/17/15 20:50	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	214	97.3	5	04/16/15 16:44	04/17/15 20:50	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	214	97.3	5	04/16/15 16:44	04/17/15 20:50	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	0	%	21-132		5	04/16/15 16:44	04/17/15 20:50	2051-24-3	D3,S4
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	17.7	17.7	1	04/15/15 14:14	04/15/15 22:06		
Surrogates									
4-Bromofluorobenzene (S)	124	%	70-167		1	04/15/15 14:14	04/15/15 22:06	460-00-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	4470	mg/kg	12.5	6.2	1	04/14/15 16:45	04/15/15 15:50	7429-90-5	
Antimony	0.61J	mg/kg	0.62	0.49	1	04/14/15 16:45	04/15/15 15:50	7440-36-0	
Arsenic	9.6	mg/kg	1.2	0.62	1	04/14/15 16:45	04/15/15 15:50	7440-38-2	
Barium	150	mg/kg	0.62	0.31	1	04/14/15 16:45	04/15/15 15:50	7440-39-3	
Beryllium	0.48	mg/kg	0.12	0.062	1	04/14/15 16:45	04/15/15 15:50	7440-41-7	
Cadmium	0.39	mg/kg	0.12	0.062	1	04/14/15 16:45	04/15/15 15:50	7440-43-9	
Calcium	4430	mg/kg	12.5	6.2	1	04/14/15 16:45	04/15/15 15:50	7440-70-2	
Chromium	7.9	mg/kg	0.62	0.31	1	04/14/15 16:45	04/15/15 15:50	7440-47-3	
Cobalt	4.1	mg/kg	0.62	0.31	1	04/14/15 16:45	04/15/15 15:50	7440-48-4	
Copper	50.0	mg/kg	0.62	0.31	1	04/14/15 16:45	04/15/15 15:50	7440-50-8	
Iron	2980	mg/kg	12.5	6.2	1	04/14/15 16:45	04/15/15 15:50	7439-89-6	
Lead	79.1	mg/kg	0.62	0.31	1	04/14/15 16:45	04/15/15 15:50	7439-92-1	
Magnesium	345	mg/kg	12.5	0.31	1	04/14/15 16:45	04/15/15 15:50	7439-95-4	
Manganese	66.0	mg/kg	0.62	0.31	1	04/14/15 16:45	04/15/15 15:50	7439-96-5	
Nickel	9.2	mg/kg	0.62	0.31	1	04/14/15 16:45	04/15/15 15:50	7440-02-0	
Potassium	894	mg/kg	624	624	1	04/14/15 16:45	04/15/15 15:50	7440-09-7	
Selenium	0.76J	mg/kg	1.2	0.62	1	04/14/15 16:45	04/15/15 15:50	7782-49-2	
Silver	ND	mg/kg	0.62	0.31	1	04/14/15 16:45	04/15/15 15:50	7440-22-4	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-3-1 **Lab ID: 92245073003** Collected: 04/10/15 08:45 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Sodium	ND	mg/kg	624	312	1	04/14/15 16:45	04/15/15 15:50	7440-23-5	
Thallium	ND	mg/kg	1.2	0.62	1	04/14/15 16:45	04/15/15 15:50	7440-28-0	
Vanadium	23.0	mg/kg	0.62	0.31	1	04/14/15 16:45	04/15/15 15:50	7440-62-2	
Zinc	148	mg/kg	1.2	0.62	1	04/14/15 16:45	04/15/15 15:50	7440-66-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.071	mg/kg	0.0057	0.00011	1	04/15/15 17:40	04/17/15 15:41	7439-97-6	
8270 MSSV PAH Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	4280	986	10	04/21/15 11:30	04/21/15 20:32	83-32-9	
Acenaphthylene	ND	ug/kg	4280	1010	10	04/21/15 11:30	04/21/15 20:32	208-96-8	
Anthracene	ND	ug/kg	4280	960	10	04/21/15 11:30	04/21/15 20:32	120-12-7	
Benzo(a)anthracene	ND	ug/kg	4280	792	10	04/21/15 11:30	04/21/15 20:32	56-55-3	
Benzo(a)pyrene	ND	ug/kg	4280	818	10	04/21/15 11:30	04/21/15 20:32	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	4280	740	10	04/21/15 11:30	04/21/15 20:32	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	4280	1090	10	04/21/15 11:30	04/21/15 20:32	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	4280	844	10	04/21/15 11:30	04/21/15 20:32	207-08-9	
Chrysene	ND	ug/kg	4280	571	10	04/21/15 11:30	04/21/15 20:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4280	908	10	04/21/15 11:30	04/21/15 20:32	53-70-3	
Fluoranthene	656J	ug/kg	4280	623	10	04/21/15 11:30	04/21/15 20:32	206-44-0	
Fluorene	ND	ug/kg	4280	883	10	04/21/15 11:30	04/21/15 20:32	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4280	883	10	04/21/15 11:30	04/21/15 20:32	193-39-5	
1-Methylnaphthalene	ND	ug/kg	4280	1120	10	04/21/15 11:30	04/21/15 20:32	90-12-0	
2-Methylnaphthalene	ND	ug/kg	4280	921	10	04/21/15 11:30	04/21/15 20:32	91-57-6	
Naphthalene	ND	ug/kg	4280	1050	10	04/21/15 11:30	04/21/15 20:32	91-20-3	
Phenanthrene	ND	ug/kg	4280	714	10	04/21/15 11:30	04/21/15 20:32	85-01-8	
Pyrene	ND	ug/kg	4280	727	10	04/21/15 11:30	04/21/15 20:32	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	0	%	23-110		10	04/21/15 11:30	04/21/15 20:32	4165-60-0	D3,S4
2-Fluorobiphenyl (S)	0	%	30-110		10	04/21/15 11:30	04/21/15 20:32	321-60-8	S4
Terphenyl-d14 (S)	0	%	28-110		10	04/21/15 11:30	04/21/15 20:32	1718-51-0	S4
8260/5035A Volatile Organics Analytical Method: EPA 8260									
Acetone	77.7J	ug/kg	313	31.3	1		04/15/15 19:39	67-64-1	
Benzene	ND	ug/kg	15.7	5.0	1		04/15/15 19:39	71-43-2	
Bromobenzene	ND	ug/kg	15.7	6.3	1		04/15/15 19:39	108-86-1	
Bromochloromethane	ND	ug/kg	15.7	5.3	1		04/15/15 19:39	74-97-5	
Bromodichloromethane	ND	ug/kg	15.7	6.0	1		04/15/15 19:39	75-27-4	
Bromoform	ND	ug/kg	15.7	7.2	1		04/15/15 19:39	75-25-2	
Bromomethane	ND	ug/kg	31.3	7.8	1		04/15/15 19:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	313	9.1	1		04/15/15 19:39	78-93-3	
n-Butylbenzene	ND	ug/kg	15.7	5.6	1		04/15/15 19:39	104-51-8	
sec-Butylbenzene	ND	ug/kg	15.7	5.0	1		04/15/15 19:39	135-98-8	
tert-Butylbenzene	ND	ug/kg	15.7	6.3	1		04/15/15 19:39	98-06-6	
Carbon tetrachloride	ND	ug/kg	15.7	8.2	1		04/15/15 19:39	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-3-1 **Lab ID: 92245073003** Collected: 04/10/15 08:45 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/kg	15.7	6.0	1		04/15/15 19:39	108-90-7	
Chloroethane	ND	ug/kg	31.3	7.5	1		04/15/15 19:39	75-00-3	
Chloroform	ND	ug/kg	15.7	5.0	1		04/15/15 19:39	67-66-3	
Chloromethane	ND	ug/kg	31.3	7.5	1		04/15/15 19:39	74-87-3	
2-Chlorotoluene	ND	ug/kg	15.7	5.3	1		04/15/15 19:39	95-49-8	
4-Chlorotoluene	ND	ug/kg	15.7	5.6	1		04/15/15 19:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	15.7	11.3	1		04/15/15 19:39	96-12-8	
Dibromochloromethane	ND	ug/kg	15.7	5.6	1		04/15/15 19:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	15.7	5.6	1		04/15/15 19:39	106-93-4	
Dibromomethane	ND	ug/kg	15.7	7.8	1		04/15/15 19:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	15.7	6.0	1		04/15/15 19:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	15.7	6.3	1		04/15/15 19:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	15.7	5.3	1		04/15/15 19:39	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	31.3	11.3	1		04/15/15 19:39	75-71-8	
1,1-Dichloroethane	ND	ug/kg	15.7	4.7	1		04/15/15 19:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	15.7	6.9	1		04/15/15 19:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	15.7	5.6	1		04/15/15 19:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	15.7	4.4	1		04/15/15 19:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	15.7	6.0	1		04/15/15 19:39	156-60-5	
1,2-Dichloropropane	ND	ug/kg	15.7	5.3	1		04/15/15 19:39	78-87-5	
1,3-Dichloropropane	ND	ug/kg	15.7	6.0	1		04/15/15 19:39	142-28-9	
2,2-Dichloropropane	ND	ug/kg	15.7	5.3	1		04/15/15 19:39	594-20-7	
1,1-Dichloropropene	ND	ug/kg	15.7	4.7	1		04/15/15 19:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	15.7	5.6	1		04/15/15 19:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	15.7	4.7	1		04/15/15 19:39	10061-02-6	
Diisopropyl ether	ND	ug/kg	15.7	5.3	1		04/15/15 19:39	108-20-3	
Ethylbenzene	ND	ug/kg	15.7	5.6	1		04/15/15 19:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	15.7	6.3	1		04/15/15 19:39	87-68-3	
2-Hexanone	ND	ug/kg	157	12.2	1		04/15/15 19:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	15.7	6.0	1		04/15/15 19:39	98-82-8	
p-Isopropyltoluene	ND	ug/kg	15.7	5.3	1		04/15/15 19:39	99-87-6	
Methylene Chloride	ND	ug/kg	62.7	9.4	1		04/15/15 19:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	157	11.6	1		04/15/15 19:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	15.7	4.7	1		04/15/15 19:39	1634-04-4	
Naphthalene	ND	ug/kg	15.7	3.8	1		04/15/15 19:39	91-20-3	
n-Propylbenzene	ND	ug/kg	15.7	5.3	1		04/15/15 19:39	103-65-1	
Styrene	ND	ug/kg	15.7	5.6	1		04/15/15 19:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	15.7	6.6	1		04/15/15 19:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	15.7	6.0	1		04/15/15 19:39	79-34-5	
Tetrachloroethene	ND	ug/kg	15.7	5.3	1		04/15/15 19:39	127-18-4	
Toluene	ND	ug/kg	15.7	5.6	1		04/15/15 19:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	15.7	6.9	1		04/15/15 19:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	15.7	5.0	1		04/15/15 19:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	15.7	5.6	1		04/15/15 19:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	15.7	6.6	1		04/15/15 19:39	79-00-5	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-3-1 **Lab ID: 92245073003** Collected: 04/10/15 08:45 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Trichloroethene	ND	ug/kg	15.7	6.6	1		04/15/15 19:39	79-01-6	
Trichlorofluoromethane	ND	ug/kg	15.7	6.9	1		04/15/15 19:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	15.7	5.0	1		04/15/15 19:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	15.7	6.3	1		04/15/15 19:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	15.7	5.6	1		04/15/15 19:39	108-67-8	
Vinyl acetate	ND	ug/kg	157	27.6	1		04/15/15 19:39	108-05-4	
Vinyl chloride	ND	ug/kg	31.3	5.6	1		04/15/15 19:39	75-01-4	
Xylene (Total)	ND	ug/kg	31.3	11.3	1		04/15/15 19:39	1330-20-7	
m&p-Xylene	ND	ug/kg	31.3	11.3	1		04/15/15 19:39	179601-23-1	
o-Xylene	ND	ug/kg	15.7	6.0	1		04/15/15 19:39	95-47-6	
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		04/15/15 19:39	2037-26-5	
4-Bromofluorobenzene (S)	86	%	70-130		1		04/15/15 19:39	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%	70-132		1		04/15/15 19:39	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	22.9	%	0.10	0.10	1		04/14/15 18:21		

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-3-2 **Lab ID: 92245073004** Collected: 04/10/15 09:00 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	85.2	mg/kg	5.9	5.3	1	04/15/15 16:45	04/17/15 06:33		
Surrogates									
n-Pentacosane (S)	78	%	41-119		1	04/15/15 16:45	04/17/15 06:33	629-99-2	
8015 GCS THC-ORO									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Oil Range Organics (C28-C40)	109	mg/kg	17.8	13.0	1	04/15/15 18:12	04/16/15 21:02		
Surrogates									
n-Pentacosane (S)	90	%	41-119		1	04/15/15 18:12	04/16/15 21:02	629-99-2	
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	195	88.8	5	04/16/15 16:44	04/17/15 21:10	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	195	88.8	5	04/16/15 16:44	04/17/15 21:10	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	195	88.8	5	04/16/15 16:44	04/17/15 21:10	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	195	88.8	5	04/16/15 16:44	04/17/15 21:10	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	195	88.8	5	04/16/15 16:44	04/17/15 21:10	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	195	88.8	5	04/16/15 16:44	04/17/15 21:10	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	195	88.8	5	04/16/15 16:44	04/17/15 21:10	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	0	%	21-132		5	04/16/15 16:44	04/17/15 21:10	2051-24-3	D3,S4
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	8.5	8.5	1	04/15/15 14:14	04/15/15 22:32		
Surrogates									
4-Bromofluorobenzene (S)	124	%	70-167		1	04/15/15 14:14	04/15/15 22:32	460-00-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	3420	mg/kg	9.7	4.9	1	04/14/15 16:45	04/15/15 15:53	7429-90-5	
Antimony	2.4	mg/kg	0.49	0.38	1	04/14/15 16:45	04/15/15 15:53	7440-36-0	
Arsenic	17.6	mg/kg	0.97	0.49	1	04/14/15 16:45	04/15/15 15:53	7440-38-2	
Barium	126	mg/kg	0.49	0.24	1	04/14/15 16:45	04/15/15 15:53	7440-39-3	
Beryllium	0.24	mg/kg	0.097	0.049	1	04/14/15 16:45	04/15/15 15:53	7440-41-7	
Cadmium	0.54	mg/kg	0.097	0.049	1	04/14/15 16:45	04/15/15 15:53	7440-43-9	
Calcium	6950	mg/kg	9.7	4.9	1	04/14/15 16:45	04/15/15 15:53	7440-70-2	
Chromium	13.9	mg/kg	0.49	0.24	1	04/14/15 16:45	04/15/15 15:53	7440-47-3	
Cobalt	5.4	mg/kg	0.49	0.24	1	04/14/15 16:45	04/15/15 15:53	7440-48-4	
Copper	67.4	mg/kg	0.49	0.24	1	04/14/15 16:45	04/15/15 15:53	7440-50-8	
Iron	19800	mg/kg	194	97.1	20	04/14/15 16:45	04/16/15 12:40	7439-89-6	
Lead	500	mg/kg	0.49	0.24	1	04/14/15 16:45	04/15/15 15:53	7439-92-1	
Magnesium	1160	mg/kg	9.7	0.24	1	04/14/15 16:45	04/15/15 15:53	7439-95-4	
Manganese	165	mg/kg	0.49	0.24	1	04/14/15 16:45	04/15/15 15:53	7439-96-5	
Nickel	12.6	mg/kg	0.49	0.24	1	04/14/15 16:45	04/15/15 15:53	7440-02-0	
Potassium	551	mg/kg	485	485	1	04/14/15 16:45	04/15/15 15:53	7440-09-7	
Selenium	ND	mg/kg	0.97	0.49	1	04/14/15 16:45	04/15/15 15:53	7782-49-2	
Silver	0.53	mg/kg	0.49	0.24	1	04/14/15 16:45	04/15/15 15:53	7440-22-4	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-3-2 **Lab ID: 92245073004** Collected: 04/10/15 09:00 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Sodium	ND	mg/kg	485	243	1	04/14/15 16:45	04/15/15 15:53	7440-23-5	
Thallium	ND	mg/kg	0.97	0.49	1	04/14/15 16:45	04/15/15 15:53	7440-28-0	
Vanadium	15.8	mg/kg	0.49	0.24	1	04/14/15 16:45	04/15/15 15:53	7440-62-2	
Zinc	518	mg/kg	0.97	0.49	1	04/14/15 16:45	04/15/15 15:53	7440-66-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.42	mg/kg	0.044	0.00089	10	04/15/15 17:40	04/17/15 16:35	7439-97-6	
8270 MSSV PAH Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	3910	900	10	04/21/15 11:30	04/21/15 21:00	83-32-9	
Acenaphthylene	ND	ug/kg	3910	924	10	04/21/15 11:30	04/21/15 21:00	208-96-8	
Anthracene	ND	ug/kg	3910	876	10	04/21/15 11:30	04/21/15 21:00	120-12-7	
Benzo(a)anthracene	ND	ug/kg	3910	722	10	04/21/15 11:30	04/21/15 21:00	56-55-3	
Benzo(a)pyrene	ND	ug/kg	3910	746	10	04/21/15 11:30	04/21/15 21:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	3910	675	10	04/21/15 11:30	04/21/15 21:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	3910	995	10	04/21/15 11:30	04/21/15 21:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	3910	770	10	04/21/15 11:30	04/21/15 21:00	207-08-9	
Chrysene	ND	ug/kg	3910	521	10	04/21/15 11:30	04/21/15 21:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	3910	829	10	04/21/15 11:30	04/21/15 21:00	53-70-3	
Fluoranthene	ND	ug/kg	3910	568	10	04/21/15 11:30	04/21/15 21:00	206-44-0	
Fluorene	ND	ug/kg	3910	805	10	04/21/15 11:30	04/21/15 21:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	3910	805	10	04/21/15 11:30	04/21/15 21:00	193-39-5	
1-Methylnaphthalene	ND	ug/kg	3910	1020	10	04/21/15 11:30	04/21/15 21:00	90-12-0	
2-Methylnaphthalene	ND	ug/kg	3910	841	10	04/21/15 11:30	04/21/15 21:00	91-57-6	
Naphthalene	ND	ug/kg	3910	959	10	04/21/15 11:30	04/21/15 21:00	91-20-3	
Phenanthrene	ND	ug/kg	3910	651	10	04/21/15 11:30	04/21/15 21:00	85-01-8	
Pyrene	ND	ug/kg	3910	663	10	04/21/15 11:30	04/21/15 21:00	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	0	%	23-110		10	04/21/15 11:30	04/21/15 21:00	4165-60-0	D3,S4
2-Fluorobiphenyl (S)	0	%	30-110		10	04/21/15 11:30	04/21/15 21:00	321-60-8	S4
Terphenyl-d14 (S)	0	%	28-110		10	04/21/15 11:30	04/21/15 21:00	1718-51-0	S4
8260/5035A Volatile Organics Analytical Method: EPA 8260									
Acetone	53.5J	ug/kg	97.2	9.7	1		04/15/15 19:58	67-64-1	
Benzene	ND	ug/kg	4.9	1.6	1		04/15/15 19:58	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1.9	1		04/15/15 19:58	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1.7	1		04/15/15 19:58	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	75-27-4	
Bromoform	ND	ug/kg	4.9	2.2	1		04/15/15 19:58	75-25-2	
Bromomethane	ND	ug/kg	9.7	2.4	1		04/15/15 19:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	97.2	2.8	1		04/15/15 19:58	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1.6	1		04/15/15 19:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1.9	1		04/15/15 19:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.9	2.5	1		04/15/15 19:58	56-23-5	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-3-2 **Lab ID: 92245073004** Collected: 04/10/15 09:00 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	108-90-7	
Chloroethane	ND	ug/kg	9.7	2.3	1		04/15/15 19:58	75-00-3	
Chloroform	ND	ug/kg	4.9	1.6	1		04/15/15 19:58	67-66-3	
Chloromethane	ND	ug/kg	9.7	2.3	1		04/15/15 19:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1.7	1		04/15/15 19:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	3.5	1		04/15/15 19:58	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	106-93-4	
Dibromomethane	ND	ug/kg	4.9	2.4	1		04/15/15 19:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1.9	1		04/15/15 19:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1.7	1		04/15/15 19:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	3.5	1		04/15/15 19:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1.5	1		04/15/15 19:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	2.1	1		04/15/15 19:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1.4	1		04/15/15 19:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1.7	1		04/15/15 19:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1.7	1		04/15/15 19:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1.5	1		04/15/15 19:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1.5	1		04/15/15 19:58	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.9	1.7	1		04/15/15 19:58	108-20-3	
Ethylbenzene	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1.9	1		04/15/15 19:58	87-68-3	
2-Hexanone	ND	ug/kg	48.6	3.8	1		04/15/15 19:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1.7	1		04/15/15 19:58	99-87-6	
Methylene Chloride	ND	ug/kg	19.4	2.9	1		04/15/15 19:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.6	3.6	1		04/15/15 19:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1.5	1		04/15/15 19:58	1634-04-4	
Naphthalene	ND	ug/kg	4.9	1.2	1		04/15/15 19:58	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1.7	1		04/15/15 19:58	103-65-1	
Styrene	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	2.0	1		04/15/15 19:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1.7	1		04/15/15 19:58	127-18-4	
Toluene	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	2.1	1		04/15/15 19:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1.6	1		04/15/15 19:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	2.0	1		04/15/15 19:58	79-00-5	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-3-2 **Lab ID: 92245073004** Collected: 04/10/15 09:00 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Trichloroethene	ND	ug/kg	4.9	2.0	1		04/15/15 19:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	2.1	1		04/15/15 19:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1.6	1		04/15/15 19:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1.9	1		04/15/15 19:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	108-67-8	
Vinyl acetate	ND	ug/kg	48.6	8.6	1		04/15/15 19:58	108-05-4	
Vinyl chloride	ND	ug/kg	9.7	1.8	1		04/15/15 19:58	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	3.5	1		04/15/15 19:58	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	3.5	1		04/15/15 19:58	179601-23-1	
o-Xylene	ND	ug/kg	4.9	1.8	1		04/15/15 19:58	95-47-6	
Surrogates									
Toluene-d8 (S)	95	%	70-130		1		04/15/15 19:58	2037-26-5	2g
4-Bromofluorobenzene (S)	77	%	70-130		1		04/15/15 19:58	460-00-4	
1,2-Dichloroethane-d4 (S)	124	%	70-132		1		04/15/15 19:58	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.6	%	0.10	0.10	1		04/14/15 18:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-2-1 **Lab ID: 92245073005** Collected: 04/10/15 09:15 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	67.0	mg/kg	6.2	5.6	1	04/15/15 16:45	04/17/15 06:33		
Surrogates									
n-Pentacosane (S)	56	%	41-119		1	04/15/15 16:45	04/17/15 06:33	629-99-2	
8015 GCS THC-ORO									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Oil Range Organics (C28-C40)	133	mg/kg	18.5	13.6	1	04/15/15 18:12	04/16/15 21:26		
Surrogates									
n-Pentacosane (S)	83	%	41-119		1	04/15/15 18:12	04/16/15 21:26	629-99-2	
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	407	185	10	04/16/15 16:44	04/17/15 21:31	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	407	185	10	04/16/15 16:44	04/17/15 21:31	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	407	185	10	04/16/15 16:44	04/17/15 21:31	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	407	185	10	04/16/15 16:44	04/17/15 21:31	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	407	185	10	04/16/15 16:44	04/17/15 21:31	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	407	185	10	04/16/15 16:44	04/17/15 21:31	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	407	185	10	04/16/15 16:44	04/17/15 21:31	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	0	%	21-132		10	04/16/15 16:44	04/17/15 21:31	2051-24-3	D3,S4
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	18.3	18.3	1	04/15/15 14:14	04/15/15 22:59		
Surrogates									
4-Bromofluorobenzene (S)	120	%	70-167		1	04/15/15 14:14	04/15/15 22:59	460-00-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	4660	mg/kg	11.2	5.6	1	04/16/15 16:00	04/20/15 14:15	7429-90-5	
Antimony	1.4	mg/kg	0.56	0.44	1	04/16/15 16:00	04/20/15 14:15	7440-36-0	
Arsenic	16.0	mg/kg	1.1	0.56	1	04/16/15 16:00	04/20/15 14:15	7440-38-2	
Barium	211	mg/kg	0.56	0.28	1	04/16/15 16:00	04/20/15 14:15	7440-39-3	
Beryllium	0.55	mg/kg	0.11	0.056	1	04/16/15 16:00	04/20/15 14:15	7440-41-7	
Cadmium	2.1	mg/kg	0.11	0.056	1	04/16/15 16:00	04/20/15 14:15	7440-43-9	
Calcium	10800	mg/kg	11.2	5.6	1	04/16/15 16:00	04/20/15 14:15	7440-70-2	
Chromium	25.2	mg/kg	0.56	0.28	1	04/16/15 16:00	04/20/15 14:15	7440-47-3	
Cobalt	6.4	mg/kg	0.56	0.28	1	04/16/15 16:00	04/20/15 14:15	7440-48-4	
Copper	211	mg/kg	0.56	0.28	1	04/16/15 16:00	04/20/15 14:15	7440-50-8	
Iron	65800	mg/kg	224	112	20	04/16/15 16:00	04/20/15 14:36	7439-89-6	
Lead	333	mg/kg	0.56	0.28	1	04/16/15 16:00	04/20/15 14:15	7439-92-1	
Magnesium	508	mg/kg	11.2	0.28	1	04/16/15 16:00	04/20/15 14:15	7439-95-4	
Manganese	190	mg/kg	0.56	0.28	1	04/16/15 16:00	04/20/15 14:15	7439-96-5	
Nickel	40.1	mg/kg	0.56	0.28	1	04/16/15 16:00	04/20/15 14:15	7440-02-0	
Potassium	1040	mg/kg	561	561	1	04/16/15 16:00	04/20/15 14:15	7440-09-7	
Selenium	ND	mg/kg	1.1	0.56	1	04/16/15 16:00	04/20/15 14:15	7782-49-2	
Silver	1.4	mg/kg	0.56	0.28	1	04/16/15 16:00	04/20/15 14:15	7440-22-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-2-1 **Lab ID: 92245073005** Collected: 04/10/15 09:15 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Sodium	ND	mg/kg	561	281	1	04/16/15 16:00	04/20/15 14:15	7440-23-5	
Thallium	ND	mg/kg	1.1	0.56	1	04/16/15 16:00	04/20/15 14:15	7440-28-0	
Vanadium	33.2	mg/kg	0.56	0.28	1	04/16/15 16:00	04/20/15 14:15	7440-62-2	
Zinc	712	mg/kg	1.1	0.56	1	04/16/15 16:00	04/20/15 14:15	7440-66-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.30	mg/kg	0.058	0.0012	10	04/16/15 15:10	04/17/15 13:08	7439-97-6	
8270 MSSV PAH Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	4070	938	10	04/21/15 11:30	04/21/15 21:28	83-32-9	
Acenaphthylene	ND	ug/kg	4070	963	10	04/21/15 11:30	04/21/15 21:28	208-96-8	
Anthracene	ND	ug/kg	4070	914	10	04/21/15 11:30	04/21/15 21:28	120-12-7	
Benzo(a)anthracene	ND	ug/kg	4070	753	10	04/21/15 11:30	04/21/15 21:28	56-55-3	
Benzo(a)pyrene	ND	ug/kg	4070	778	10	04/21/15 11:30	04/21/15 21:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	4070	704	10	04/21/15 11:30	04/21/15 21:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	4070	1040	10	04/21/15 11:30	04/21/15 21:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	4070	802	10	04/21/15 11:30	04/21/15 21:28	207-08-9	
Chrysene	631J	ug/kg	4070	543	10	04/21/15 11:30	04/21/15 21:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4070	864	10	04/21/15 11:30	04/21/15 21:28	53-70-3	
Fluoranthene	1330J	ug/kg	4070	593	10	04/21/15 11:30	04/21/15 21:28	206-44-0	
Fluorene	ND	ug/kg	4070	839	10	04/21/15 11:30	04/21/15 21:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4070	839	10	04/21/15 11:30	04/21/15 21:28	193-39-5	
1-Methylnaphthalene	ND	ug/kg	4070	1060	10	04/21/15 11:30	04/21/15 21:28	90-12-0	
2-Methylnaphthalene	ND	ug/kg	4070	877	10	04/21/15 11:30	04/21/15 21:28	91-57-6	
Naphthalene	ND	ug/kg	4070	1000	10	04/21/15 11:30	04/21/15 21:28	91-20-3	
Phenanthrene	995J	ug/kg	4070	679	10	04/21/15 11:30	04/21/15 21:28	85-01-8	
Pyrene	906J	ug/kg	4070	691	10	04/21/15 11:30	04/21/15 21:28	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	0	%	23-110		10	04/21/15 11:30	04/21/15 21:28	4165-60-0	D3,S4
2-Fluorobiphenyl (S)	0	%	30-110		10	04/21/15 11:30	04/21/15 21:28	321-60-8	S4
Terphenyl-d14 (S)	0	%	28-110		10	04/21/15 11:30	04/21/15 21:28	1718-51-0	S4
8260/5035A Volatile Organics Analytical Method: EPA 8260									
Acetone	74.2J	ug/kg	200	20.0	1		04/14/15 21:28	67-64-1	
Benzene	ND	ug/kg	10	3.2	1		04/14/15 21:28	71-43-2	
Bromobenzene	ND	ug/kg	10	4.0	1		04/14/15 21:28	108-86-1	
Bromochloromethane	ND	ug/kg	10	3.4	1		04/14/15 21:28	74-97-5	
Bromodichloromethane	ND	ug/kg	10	3.8	1		04/14/15 21:28	75-27-4	
Bromoform	ND	ug/kg	10	4.6	1		04/14/15 21:28	75-25-2	
Bromomethane	ND	ug/kg	20.0	5.0	1		04/14/15 21:28	74-83-9	
2-Butanone (MEK)	ND	ug/kg	200	5.8	1		04/14/15 21:28	78-93-3	
n-Butylbenzene	ND	ug/kg	10	3.6	1		04/14/15 21:28	104-51-8	
sec-Butylbenzene	ND	ug/kg	10	3.2	1		04/14/15 21:28	135-98-8	
tert-Butylbenzene	ND	ug/kg	10	4.0	1		04/14/15 21:28	98-06-6	
Carbon tetrachloride	ND	ug/kg	10	5.2	1		04/14/15 21:28	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: **GSS-603-800-2-1** Lab ID: **92245073005** Collected: 04/10/15 09:15 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/kg	10	3.8	1		04/14/15 21:28	108-90-7	
Chloroethane	ND	ug/kg	20.0	4.8	1		04/14/15 21:28	75-00-3	
Chloroform	ND	ug/kg	10	3.2	1		04/14/15 21:28	67-66-3	
Chloromethane	ND	ug/kg	20.0	4.8	1		04/14/15 21:28	74-87-3	
2-Chlorotoluene	ND	ug/kg	10	3.4	1		04/14/15 21:28	95-49-8	
4-Chlorotoluene	ND	ug/kg	10	3.6	1		04/14/15 21:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	10	7.2	1		04/14/15 21:28	96-12-8	
Dibromochloromethane	ND	ug/kg	10	3.6	1		04/14/15 21:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	10	3.6	1		04/14/15 21:28	106-93-4	
Dibromomethane	ND	ug/kg	10	5.0	1		04/14/15 21:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	10	3.8	1		04/14/15 21:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	10	4.0	1		04/14/15 21:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	10	3.4	1		04/14/15 21:28	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	20.0	7.2	1		04/14/15 21:28	75-71-8	
1,1-Dichloroethane	ND	ug/kg	10	3.0	1		04/14/15 21:28	75-34-3	
1,2-Dichloroethane	ND	ug/kg	10	4.4	1		04/14/15 21:28	107-06-2	
1,1-Dichloroethene	ND	ug/kg	10	3.6	1		04/14/15 21:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	10	2.8	1		04/14/15 21:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	10	3.8	1		04/14/15 21:28	156-60-5	
1,2-Dichloropropane	ND	ug/kg	10	3.4	1		04/14/15 21:28	78-87-5	
1,3-Dichloropropane	ND	ug/kg	10	3.8	1		04/14/15 21:28	142-28-9	
2,2-Dichloropropane	ND	ug/kg	10	3.4	1		04/14/15 21:28	594-20-7	
1,1-Dichloropropene	ND	ug/kg	10	3.0	1		04/14/15 21:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	10	3.6	1		04/14/15 21:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	10	3.0	1		04/14/15 21:28	10061-02-6	
Diisopropyl ether	ND	ug/kg	10	3.4	1		04/14/15 21:28	108-20-3	
Ethylbenzene	ND	ug/kg	10	3.6	1		04/14/15 21:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	10	4.0	1		04/14/15 21:28	87-68-3	
2-Hexanone	ND	ug/kg	99.9	7.8	1		04/14/15 21:28	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	10	3.8	1		04/14/15 21:28	98-82-8	
p-Isopropyltoluene	ND	ug/kg	10	3.4	1		04/14/15 21:28	99-87-6	
Methylene Chloride	55.9	ug/kg	40.0	6.0	1		04/14/15 21:28	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	99.9	7.4	1		04/14/15 21:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	10	3.0	1		04/14/15 21:28	1634-04-4	
Naphthalene	ND	ug/kg	10	2.4	1		04/14/15 21:28	91-20-3	
n-Propylbenzene	ND	ug/kg	10	3.4	1		04/14/15 21:28	103-65-1	
Styrene	ND	ug/kg	10	3.6	1		04/14/15 21:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	10	4.2	1		04/14/15 21:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	10	3.8	1		04/14/15 21:28	79-34-5	
Tetrachloroethene	ND	ug/kg	10	3.4	1		04/14/15 21:28	127-18-4	
Toluene	ND	ug/kg	10	3.6	1		04/14/15 21:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	10	4.4	1		04/14/15 21:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	10	3.2	1		04/14/15 21:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	10	3.6	1		04/14/15 21:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	10	4.2	1		04/14/15 21:28	79-00-5	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-2-1 **Lab ID: 92245073005** Collected: 04/10/15 09:15 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Trichloroethene	ND	ug/kg	10	4.2	1		04/14/15 21:28	79-01-6	
Trichlorofluoromethane	ND	ug/kg	10	4.4	1		04/14/15 21:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	10	3.2	1		04/14/15 21:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	10	4.0	1		04/14/15 21:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	10	3.6	1		04/14/15 21:28	108-67-8	
Vinyl acetate	ND	ug/kg	99.9	17.6	1		04/14/15 21:28	108-05-4	
Vinyl chloride	ND	ug/kg	20.0	3.6	1		04/14/15 21:28	75-01-4	
Xylene (Total)	ND	ug/kg	20.0	7.2	1		04/14/15 21:28	1330-20-7	
m&p-Xylene	ND	ug/kg	20.0	7.2	1		04/14/15 21:28	179601-23-1	
o-Xylene	ND	ug/kg	10	3.8	1		04/14/15 21:28	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		04/14/15 21:28	2037-26-5	IO
4-Bromofluorobenzene (S)	79	%	70-130		1		04/14/15 21:28	460-00-4	
1,2-Dichloroethane-d4 (S)	133	%	70-132		1		04/14/15 21:28	17060-07-0	S2
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	19.0	%	0.10	0.10	1		04/16/15 10:41		

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-2-2 **Lab ID: 92245073006** Collected: 04/10/15 09:30 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	28.8	mg/kg	6.4	5.8	1	04/15/15 16:45	04/17/15 06:57		
Surrogates									
n-Pentacosane (S)	75	%	41-119		1	04/15/15 16:45	04/17/15 06:57	629-99-2	
8015 GCS THC-ORO									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Oil Range Organics (C28-C40)	30.6	mg/kg	19.3	14.1	1	04/15/15 18:12	04/16/15 21:50		
Surrogates									
n-Pentacosane (S)	73	%	41-119		1	04/15/15 18:12	04/16/15 21:50	629-99-2	
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	212	96.5	5	04/16/15 16:44	04/17/15 21:52	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	212	96.5	5	04/16/15 16:44	04/17/15 21:52	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	212	96.5	5	04/16/15 16:44	04/17/15 21:52	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	212	96.5	5	04/16/15 16:44	04/17/15 21:52	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	212	96.5	5	04/16/15 16:44	04/17/15 21:52	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	212	96.5	5	04/16/15 16:44	04/17/15 21:52	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	212	96.5	5	04/16/15 16:44	04/17/15 21:52	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	0	%	21-132		5	04/16/15 16:44	04/17/15 21:52	2051-24-3	D3,S4
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	10.1	10.1	1	04/15/15 14:14	04/15/15 23:25		
Surrogates									
4-Bromofluorobenzene (S)	124	%	70-167		1	04/15/15 14:14	04/15/15 23:25	460-00-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	7370	mg/kg	11.1	5.5	1	04/14/15 16:45	04/15/15 16:05	7429-90-5	
Antimony	3.6	mg/kg	0.55	0.43	1	04/14/15 16:45	04/15/15 16:05	7440-36-0	
Arsenic	23.3	mg/kg	1.1	0.55	1	04/14/15 16:45	04/15/15 16:05	7440-38-2	
Barium	487	mg/kg	0.55	0.28	1	04/14/15 16:45	04/15/15 16:05	7440-39-3	
Beryllium	0.49	mg/kg	0.11	0.055	1	04/14/15 16:45	04/15/15 16:05	7440-41-7	
Cadmium	2.4	mg/kg	0.11	0.055	1	04/14/15 16:45	04/15/15 16:05	7440-43-9	
Calcium	78200	mg/kg	222	111	20	04/14/15 16:45	04/16/15 12:43	7440-70-2	
Chromium	17.6	mg/kg	0.55	0.28	1	04/14/15 16:45	04/15/15 16:05	7440-47-3	
Cobalt	8.0	mg/kg	0.55	0.28	1	04/14/15 16:45	04/15/15 16:05	7440-48-4	
Copper	60.8	mg/kg	0.55	0.28	1	04/14/15 16:45	04/15/15 16:05	7440-50-8	
Iron	7550	mg/kg	11.1	5.5	1	04/14/15 16:45	04/15/15 16:05	7439-89-6	
Lead	640	mg/kg	0.55	0.28	1	04/14/15 16:45	04/15/15 16:05	7439-92-1	
Magnesium	934	mg/kg	11.1	0.28	1	04/14/15 16:45	04/15/15 16:05	7439-95-4	
Manganese	364	mg/kg	0.55	0.28	1	04/14/15 16:45	04/15/15 16:05	7439-96-5	
Nickel	18.6	mg/kg	0.55	0.28	1	04/14/15 16:45	04/15/15 16:05	7440-02-0	
Potassium	1090	mg/kg	554	554	1	04/14/15 16:45	04/15/15 16:05	7440-09-7	
Selenium	5.1	mg/kg	1.1	0.55	1	04/14/15 16:45	04/15/15 16:05	7782-49-2	
Silver	1.4	mg/kg	0.55	0.28	1	04/14/15 16:45	04/15/15 16:05	7440-22-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-2-2 **Lab ID: 92245073006** Collected: 04/10/15 09:30 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Sodium	1600	mg/kg	554	277	1	04/14/15 16:45	04/15/15 16:05	7440-23-5	
Thallium	ND	mg/kg	1.1	0.55	1	04/14/15 16:45	04/15/15 16:05	7440-28-0	
Vanadium	30.1	mg/kg	0.55	0.28	1	04/14/15 16:45	04/15/15 16:05	7440-62-2	
Zinc	1690	mg/kg	22.2	11.1	20	04/14/15 16:45	04/16/15 12:43	7440-66-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.093	mg/kg	0.0047	0.000094	1	04/15/15 17:40	04/17/15 15:54	7439-97-6	
8270 MSSV PAH Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	424	97.8	1	04/21/15 11:30	04/22/15 20:18	83-32-9	
Acenaphthylene	ND	ug/kg	424	100	1	04/21/15 11:30	04/22/15 20:18	208-96-8	
Anthracene	ND	ug/kg	424	95.2	1	04/21/15 11:30	04/22/15 20:18	120-12-7	
Benzo(a)anthracene	ND	ug/kg	424	78.5	1	04/21/15 11:30	04/22/15 20:18	56-55-3	
Benzo(a)pyrene	ND	ug/kg	424	81.0	1	04/21/15 11:30	04/22/15 20:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	424	73.3	1	04/21/15 11:30	04/22/15 20:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	424	108	1	04/21/15 11:30	04/22/15 20:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	424	83.6	1	04/21/15 11:30	04/22/15 20:18	207-08-9	
Chrysene	ND	ug/kg	424	56.6	1	04/21/15 11:30	04/22/15 20:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	424	90.0	1	04/21/15 11:30	04/22/15 20:18	53-70-3	
Fluoranthene	ND	ug/kg	424	61.7	1	04/21/15 11:30	04/22/15 20:18	206-44-0	
Fluorene	ND	ug/kg	424	87.5	1	04/21/15 11:30	04/22/15 20:18	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	424	87.5	1	04/21/15 11:30	04/22/15 20:18	193-39-5	
1-Methylnaphthalene	ND	ug/kg	424	111	1	04/21/15 11:30	04/22/15 20:18	90-12-0	
2-Methylnaphthalene	ND	ug/kg	424	91.3	1	04/21/15 11:30	04/22/15 20:18	91-57-6	
Naphthalene	ND	ug/kg	424	104	1	04/21/15 11:30	04/22/15 20:18	91-20-3	
Phenanthrene	ND	ug/kg	424	70.7	1	04/21/15 11:30	04/22/15 20:18	85-01-8	
Pyrene	ND	ug/kg	424	72.0	1	04/21/15 11:30	04/22/15 20:18	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	40	%	23-110		1	04/21/15 11:30	04/22/15 20:18	4165-60-0	
2-Fluorobiphenyl (S)	38	%	30-110		1	04/21/15 11:30	04/22/15 20:18	321-60-8	
Terphenyl-d14 (S)	53	%	28-110		1	04/21/15 11:30	04/22/15 20:18	1718-51-0	
8260/5035A Volatile Organics Analytical Method: EPA 8260									
Acetone	ND	ug/kg	194	19.4	1		04/14/15 21:48	67-64-1	
Benzene	ND	ug/kg	9.7	3.1	1		04/14/15 21:48	71-43-2	
Bromobenzene	ND	ug/kg	9.7	3.9	1		04/14/15 21:48	108-86-1	
Bromochloromethane	ND	ug/kg	9.7	3.3	1		04/14/15 21:48	74-97-5	
Bromodichloromethane	ND	ug/kg	9.7	3.7	1		04/14/15 21:48	75-27-4	
Bromoform	ND	ug/kg	9.7	4.5	1		04/14/15 21:48	75-25-2	
Bromomethane	ND	ug/kg	19.4	4.9	1		04/14/15 21:48	74-83-9	
2-Butanone (MEK)	ND	ug/kg	194	5.6	1		04/14/15 21:48	78-93-3	
n-Butylbenzene	ND	ug/kg	9.7	3.5	1		04/14/15 21:48	104-51-8	
sec-Butylbenzene	ND	ug/kg	9.7	3.1	1		04/14/15 21:48	135-98-8	
tert-Butylbenzene	ND	ug/kg	9.7	3.9	1		04/14/15 21:48	98-06-6	
Carbon tetrachloride	ND	ug/kg	9.7	5.1	1		04/14/15 21:48	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-2-2 **Lab ID: 92245073006** Collected: 04/10/15 09:30 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/kg	9.7	3.7	1		04/14/15 21:48	108-90-7	
Chloroethane	ND	ug/kg	19.4	4.7	1		04/14/15 21:48	75-00-3	
Chloroform	ND	ug/kg	9.7	3.1	1		04/14/15 21:48	67-66-3	
Chloromethane	ND	ug/kg	19.4	4.7	1		04/14/15 21:48	74-87-3	
2-Chlorotoluene	ND	ug/kg	9.7	3.3	1		04/14/15 21:48	95-49-8	
4-Chlorotoluene	ND	ug/kg	9.7	3.5	1		04/14/15 21:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	9.7	7.0	1		04/14/15 21:48	96-12-8	
Dibromochloromethane	ND	ug/kg	9.7	3.5	1		04/14/15 21:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	9.7	3.5	1		04/14/15 21:48	106-93-4	
Dibromomethane	ND	ug/kg	9.7	4.9	1		04/14/15 21:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	9.7	3.7	1		04/14/15 21:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	9.7	3.9	1		04/14/15 21:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	9.7	3.3	1		04/14/15 21:48	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	19.4	7.0	1		04/14/15 21:48	75-71-8	
1,1-Dichloroethane	ND	ug/kg	9.7	2.9	1		04/14/15 21:48	75-34-3	
1,2-Dichloroethane	ND	ug/kg	9.7	4.3	1		04/14/15 21:48	107-06-2	
1,1-Dichloroethene	ND	ug/kg	9.7	3.5	1		04/14/15 21:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	9.7	2.7	1		04/14/15 21:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	9.7	3.7	1		04/14/15 21:48	156-60-5	
1,2-Dichloropropane	ND	ug/kg	9.7	3.3	1		04/14/15 21:48	78-87-5	
1,3-Dichloropropane	ND	ug/kg	9.7	3.7	1		04/14/15 21:48	142-28-9	
2,2-Dichloropropane	ND	ug/kg	9.7	3.3	1		04/14/15 21:48	594-20-7	
1,1-Dichloropropene	ND	ug/kg	9.7	2.9	1		04/14/15 21:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	9.7	3.5	1		04/14/15 21:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	9.7	2.9	1		04/14/15 21:48	10061-02-6	
Diisopropyl ether	ND	ug/kg	9.7	3.3	1		04/14/15 21:48	108-20-3	
Ethylbenzene	ND	ug/kg	9.7	3.5	1		04/14/15 21:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	9.7	3.9	1		04/14/15 21:48	87-68-3	
2-Hexanone	ND	ug/kg	97.2	7.6	1		04/14/15 21:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	9.7	3.7	1		04/14/15 21:48	98-82-8	
p-Isopropyltoluene	ND	ug/kg	9.7	3.3	1		04/14/15 21:48	99-87-6	
Methylene Chloride	13.4J	ug/kg	38.9	5.8	1		04/14/15 21:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	97.2	7.2	1		04/14/15 21:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	9.7	2.9	1		04/14/15 21:48	1634-04-4	
Naphthalene	ND	ug/kg	9.7	2.3	1		04/14/15 21:48	91-20-3	
n-Propylbenzene	ND	ug/kg	9.7	3.3	1		04/14/15 21:48	103-65-1	
Styrene	ND	ug/kg	9.7	3.5	1		04/14/15 21:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	9.7	4.1	1		04/14/15 21:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	9.7	3.7	1		04/14/15 21:48	79-34-5	
Tetrachloroethene	ND	ug/kg	9.7	3.3	1		04/14/15 21:48	127-18-4	
Toluene	ND	ug/kg	9.7	3.5	1		04/14/15 21:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	9.7	4.3	1		04/14/15 21:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	9.7	3.1	1		04/14/15 21:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	9.7	3.5	1		04/14/15 21:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	9.7	4.1	1		04/14/15 21:48	79-00-5	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GSS-603-800-2-2 **Lab ID: 92245073006** Collected: 04/10/15 09:30 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Trichloroethene	ND	ug/kg	9.7	4.1	1		04/14/15 21:48	79-01-6	
Trichlorofluoromethane	ND	ug/kg	9.7	4.3	1		04/14/15 21:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	9.7	3.1	1		04/14/15 21:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	9.7	3.9	1		04/14/15 21:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	9.7	3.5	1		04/14/15 21:48	108-67-8	
Vinyl acetate	ND	ug/kg	97.2	17.1	1		04/14/15 21:48	108-05-4	
Vinyl chloride	ND	ug/kg	19.4	3.5	1		04/14/15 21:48	75-01-4	
Xylene (Total)	ND	ug/kg	19.4	7.0	1		04/14/15 21:48	1330-20-7	
m&p-Xylene	ND	ug/kg	19.4	7.0	1		04/14/15 21:48	179601-23-1	
o-Xylene	ND	ug/kg	9.7	3.7	1		04/14/15 21:48	95-47-6	
Surrogates									
Toluene-d8 (S)	97	%	70-130		1		04/14/15 21:48	2037-26-5	2g
4-Bromofluorobenzene (S)	79	%	70-130		1		04/14/15 21:48	460-00-4	
1,2-Dichloroethane-d4 (S)	129	%	70-132		1		04/14/15 21:48	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	22.3	%	0.10	0.10	1		04/16/15 10:41		

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GTW-605-802-7-1 **Lab ID: 92245073007** Collected: 04/10/15 09:45 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	299	mg/kg	6.4	5.8	1	04/15/15 16:45	04/17/15 06:57		
Surrogates									
n-Pentacosane (S)	82	%	41-119		1	04/15/15 16:45	04/17/15 06:57	629-99-2	
8015 GCS THC-ORO Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Oil Range Organics (C28-C40)	319	mg/kg	19.3	14.1	1	04/15/15 18:12	04/16/15 22:13		
Surrogates									
n-Pentacosane (S)	123	%	41-119		1	04/15/15 18:12	04/16/15 22:13	629-99-2	S5
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	379	172	5	04/16/15 16:44	04/17/15 22:12	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	379	172	5	04/16/15 16:44	04/17/15 22:12	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	379	172	5	04/16/15 16:44	04/17/15 22:12	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	379	172	5	04/16/15 16:44	04/17/15 22:12	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	379	172	5	04/16/15 16:44	04/17/15 22:12	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	379	172	5	04/16/15 16:44	04/17/15 22:12	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	379	172	5	04/16/15 16:44	04/17/15 22:12	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	0	%	21-132		5	04/16/15 16:44	04/17/15 22:12	2051-24-3	D3,S4
Gasoline Range Organics Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	10.7	mg/kg	7.7	7.7	1	04/15/15 14:14	04/15/15 23:51		
Surrogates									
4-Bromofluorobenzene (S)	123	%	70-167		1	04/15/15 14:14	04/15/15 23:51	460-00-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	4400	mg/kg	11.9	6.0	1	04/14/15 16:45	04/15/15 16:09	7429-90-5	
Antimony	2.4	mg/kg	0.60	0.46	1	04/14/15 16:45	04/15/15 16:09	7440-36-0	
Arsenic	3.9	mg/kg	1.2	0.60	1	04/14/15 16:45	04/15/15 16:09	7440-38-2	
Barium	53.2	mg/kg	0.60	0.30	1	04/14/15 16:45	04/15/15 16:09	7440-39-3	
Beryllium	0.91	mg/kg	0.12	0.060	1	04/14/15 16:45	04/15/15 16:09	7440-41-7	
Cadmium	0.25	mg/kg	0.12	0.060	1	04/14/15 16:45	04/15/15 16:09	7440-43-9	
Calcium	4120	mg/kg	11.9	6.0	1	04/14/15 16:45	04/15/15 16:09	7440-70-2	
Chromium	9.8	mg/kg	0.60	0.30	1	04/14/15 16:45	04/15/15 16:09	7440-47-3	
Cobalt	3.9	mg/kg	0.60	0.30	1	04/14/15 16:45	04/15/15 16:09	7440-48-4	
Copper	53.1	mg/kg	0.60	0.30	1	04/14/15 16:45	04/15/15 16:09	7440-50-8	
Iron	14700	mg/kg	238	119	20	04/14/15 16:45	04/16/15 12:46	7439-89-6	
Lead	62.1	mg/kg	0.60	0.30	1	04/14/15 16:45	04/15/15 16:09	7439-92-1	
Magnesium	392	mg/kg	11.9	0.30	1	04/14/15 16:45	04/15/15 16:09	7439-95-4	
Manganese	57.6	mg/kg	0.60	0.30	1	04/14/15 16:45	04/15/15 16:09	7439-96-5	
Nickel	9.6	mg/kg	0.60	0.30	1	04/14/15 16:45	04/15/15 16:09	7440-02-0	
Potassium	ND	mg/kg	596	596	1	04/14/15 16:45	04/15/15 16:09	7440-09-7	
Selenium	ND	mg/kg	1.2	0.60	1	04/14/15 16:45	04/15/15 16:09	7782-49-2	
Silver	0.73	mg/kg	0.60	0.30	1	04/14/15 16:45	04/15/15 16:09	7440-22-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GTW-605-802-7-1 **Lab ID:** 92245073007 Collected: 04/10/15 09:45 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Sodium	ND	mg/kg	596	298	1	04/14/15 16:45	04/15/15 16:09	7440-23-5	
Thallium	ND	mg/kg	1.2	0.60	1	04/14/15 16:45	04/15/15 16:09	7440-28-0	
Vanadium	19.8	mg/kg	0.60	0.30	1	04/14/15 16:45	04/15/15 16:09	7440-62-2	
Zinc	41.7	mg/kg	1.2	0.60	1	04/14/15 16:45	04/15/15 16:09	7440-66-6	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.021	mg/kg	0.0055	0.00011	1	04/15/15 17:40	04/17/15 15:58	7439-97-6	
8270 MSSV PAH Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	6370	1470	10	04/21/15 11:30	04/21/15 22:24	83-32-9	
Acenaphthylene	ND	ug/kg	6370	1500	10	04/21/15 11:30	04/21/15 22:24	208-96-8	
Anthracene	ND	ug/kg	6370	1430	10	04/21/15 11:30	04/21/15 22:24	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6370	1180	10	04/21/15 11:30	04/21/15 22:24	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6370	1220	10	04/21/15 11:30	04/21/15 22:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6370	1100	10	04/21/15 11:30	04/21/15 22:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6370	1620	10	04/21/15 11:30	04/21/15 22:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6370	1250	10	04/21/15 11:30	04/21/15 22:24	207-08-9	
Chrysene	ND	ug/kg	6370	849	10	04/21/15 11:30	04/21/15 22:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6370	1350	10	04/21/15 11:30	04/21/15 22:24	53-70-3	
Fluoranthene	ND	ug/kg	6370	926	10	04/21/15 11:30	04/21/15 22:24	206-44-0	
Fluorene	ND	ug/kg	6370	1310	10	04/21/15 11:30	04/21/15 22:24	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6370	1310	10	04/21/15 11:30	04/21/15 22:24	193-39-5	
1-Methylnaphthalene	2840J	ug/kg	6370	1660	10	04/21/15 11:30	04/21/15 22:24	90-12-0	
2-Methylnaphthalene	3420J	ug/kg	6370	1370	10	04/21/15 11:30	04/21/15 22:24	91-57-6	
Naphthalene	2750J	ug/kg	6370	1560	10	04/21/15 11:30	04/21/15 22:24	91-20-3	
Phenanthrene	1670J	ug/kg	6370	1060	10	04/21/15 11:30	04/21/15 22:24	85-01-8	
Pyrene	ND	ug/kg	6370	1080	10	04/21/15 11:30	04/21/15 22:24	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	0	%	23-110		10	04/21/15 11:30	04/21/15 22:24	4165-60-0	D3,S4
2-Fluorobiphenyl (S)	0	%	30-110		10	04/21/15 11:30	04/21/15 22:24	321-60-8	S4
Terphenyl-d14 (S)	0	%	28-110		10	04/21/15 11:30	04/21/15 22:24	1718-51-0	S4
8260/5035A Volatile Organics Analytical Method: EPA 8260									
Acetone	173J	ug/kg	193	19.3	1		04/15/15 20:38	67-64-1	
Benzene	ND	ug/kg	9.6	3.1	1		04/15/15 20:38	71-43-2	
Bromobenzene	ND	ug/kg	9.6	3.9	1		04/15/15 20:38	108-86-1	
Bromochloromethane	ND	ug/kg	9.6	3.3	1		04/15/15 20:38	74-97-5	
Bromodichloromethane	ND	ug/kg	9.6	3.7	1		04/15/15 20:38	75-27-4	
Bromoform	ND	ug/kg	9.6	4.4	1		04/15/15 20:38	75-25-2	
Bromomethane	ND	ug/kg	19.3	4.8	1		04/15/15 20:38	74-83-9	
2-Butanone (MEK)	ND	ug/kg	193	5.6	1		04/15/15 20:38	78-93-3	
n-Butylbenzene	ND	ug/kg	9.6	3.5	1		04/15/15 20:38	104-51-8	
sec-Butylbenzene	ND	ug/kg	9.6	3.1	1		04/15/15 20:38	135-98-8	
tert-Butylbenzene	ND	ug/kg	9.6	3.9	1		04/15/15 20:38	98-06-6	
Carbon tetrachloride	ND	ug/kg	9.6	5.0	1		04/15/15 20:38	56-23-5	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GTW-605-802-7-1 Lab ID: 92245073007 Collected: 04/10/15 09:45 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Chlorobenzene	ND	ug/kg	9.6	3.7	1		04/15/15 20:38	108-90-7	
Chloroethane	ND	ug/kg	19.3	4.6	1		04/15/15 20:38	75-00-3	
Chloroform	ND	ug/kg	9.6	3.1	1		04/15/15 20:38	67-66-3	
Chloromethane	ND	ug/kg	19.3	4.6	1		04/15/15 20:38	74-87-3	
2-Chlorotoluene	ND	ug/kg	9.6	3.3	1		04/15/15 20:38	95-49-8	
4-Chlorotoluene	ND	ug/kg	9.6	3.5	1		04/15/15 20:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	9.6	6.9	1		04/15/15 20:38	96-12-8	
Dibromochloromethane	ND	ug/kg	9.6	3.5	1		04/15/15 20:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	9.6	3.5	1		04/15/15 20:38	106-93-4	
Dibromomethane	ND	ug/kg	9.6	4.8	1		04/15/15 20:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	9.6	3.7	1		04/15/15 20:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	9.6	3.9	1		04/15/15 20:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	9.6	3.3	1		04/15/15 20:38	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	19.3	6.9	1		04/15/15 20:38	75-71-8	
1,1-Dichloroethane	ND	ug/kg	9.6	2.9	1		04/15/15 20:38	75-34-3	
1,2-Dichloroethane	ND	ug/kg	9.6	4.2	1		04/15/15 20:38	107-06-2	
1,1-Dichloroethene	ND	ug/kg	9.6	3.5	1		04/15/15 20:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	9.6	2.7	1		04/15/15 20:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	9.6	3.7	1		04/15/15 20:38	156-60-5	
1,2-Dichloropropane	ND	ug/kg	9.6	3.3	1		04/15/15 20:38	78-87-5	
1,3-Dichloropropane	ND	ug/kg	9.6	3.7	1		04/15/15 20:38	142-28-9	
2,2-Dichloropropane	ND	ug/kg	9.6	3.3	1		04/15/15 20:38	594-20-7	
1,1-Dichloropropene	ND	ug/kg	9.6	2.9	1		04/15/15 20:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	9.6	3.5	1		04/15/15 20:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	9.6	2.9	1		04/15/15 20:38	10061-02-6	
Diisopropyl ether	ND	ug/kg	9.6	3.3	1		04/15/15 20:38	108-20-3	
Ethylbenzene	ND	ug/kg	9.6	3.5	1		04/15/15 20:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	9.6	3.9	1		04/15/15 20:38	87-68-3	
2-Hexanone	ND	ug/kg	96.3	7.5	1		04/15/15 20:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	9.6	3.7	1		04/15/15 20:38	98-82-8	
p-Isopropyltoluene	ND	ug/kg	9.6	3.3	1		04/15/15 20:38	99-87-6	
Methylene Chloride	21.6J	ug/kg	38.5	5.8	1		04/15/15 20:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	96.3	7.1	1		04/15/15 20:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	9.6	2.9	1		04/15/15 20:38	1634-04-4	
Naphthalene	ND	ug/kg	9.6	2.3	1		04/15/15 20:38	91-20-3	
n-Propylbenzene	ND	ug/kg	9.6	3.3	1		04/15/15 20:38	103-65-1	
Styrene	ND	ug/kg	9.6	3.5	1		04/15/15 20:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	9.6	4.0	1		04/15/15 20:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	9.6	3.7	1		04/15/15 20:38	79-34-5	
Tetrachloroethene	ND	ug/kg	9.6	3.3	1		04/15/15 20:38	127-18-4	
Toluene	ND	ug/kg	9.6	3.5	1		04/15/15 20:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	9.6	4.2	1		04/15/15 20:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	9.6	3.1	1		04/15/15 20:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	9.6	3.5	1		04/15/15 20:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	9.6	4.0	1		04/15/15 20:38	79-00-5	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GTW-605-802-7-1 **Lab ID:** 92245073007 Collected: 04/10/15 09:45 Received: 04/11/15 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Trichloroethene	ND	ug/kg	9.6	4.0	1		04/15/15 20:38	79-01-6	
Trichlorofluoromethane	ND	ug/kg	9.6	4.2	1		04/15/15 20:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	9.6	3.1	1		04/15/15 20:38	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	9.6	3.9	1		04/15/15 20:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	9.6	3.5	1		04/15/15 20:38	108-67-8	
Vinyl acetate	ND	ug/kg	96.3	16.9	1		04/15/15 20:38	108-05-4	
Vinyl chloride	ND	ug/kg	19.3	3.5	1		04/15/15 20:38	75-01-4	
Xylene (Total)	ND	ug/kg	19.3	6.9	1		04/15/15 20:38	1330-20-7	
m&p-Xylene	ND	ug/kg	19.3	6.9	1		04/15/15 20:38	179601-23-1	
o-Xylene	ND	ug/kg	9.6	3.7	1		04/15/15 20:38	95-47-6	
Surrogates									
Toluene-d8 (S)	95	%	70-130		1		04/15/15 20:38	2037-26-5	2g
4-Bromofluorobenzene (S)	73	%	70-130		1		04/15/15 20:38	460-00-4	
1,2-Dichloroethane-d4 (S)	130	%	70-132		1		04/15/15 20:38	17060-07-0	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture	22.3	%	0.10	0.10	1		04/16/15 10:41		
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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GTW-605-802-6-2 **Lab ID:** 92245073008 Collected: 04/10/15 12:40 Received: 04/11/15 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Gasoline Range Organics		Analytical Method: EPA 5030/8015 Mod.							
Gas Range Organics (C6-C10)	ND	mg/L	0.080	0.016	1		04/15/15 02:05		
Surrogates									
4-Bromofluorobenzene (S)	114	%	70-145		1		04/15/15 02:05	460-00-4	
8260 MSV Low Level		Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	100	10		04/17/15 18:20	67-64-1	
Benzene	ND	ug/L	10.0	2.5	10		04/17/15 18:20	71-43-2	
Bromobenzene	ND	ug/L	10.0	3.0	10		04/17/15 18:20	108-86-1	
Bromochloromethane	ND	ug/L	10.0	1.7	10		04/17/15 18:20	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	1.8	10		04/17/15 18:20	75-27-4	
Bromoform	ND	ug/L	10.0	2.6	10		04/17/15 18:20	75-25-2	
Bromomethane	ND	ug/L	20.0	2.9	10		04/17/15 18:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	9.6	10		04/17/15 18:20	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	2.5	10		04/17/15 18:20	56-23-5	
Chlorobenzene	ND	ug/L	10.0	2.3	10		04/17/15 18:20	108-90-7	
Chloroethane	ND	ug/L	10.0	5.4	10		04/17/15 18:20	75-00-3	
Chloroform	ND	ug/L	10.0	1.4	10		04/17/15 18:20	67-66-3	
Chloromethane	ND	ug/L	10.0	1.1	10		04/17/15 18:20	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	3.5	10		04/17/15 18:20	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	3.1	10		04/17/15 18:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	20.0	10		04/17/15 18:20	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	2.1	10		04/17/15 18:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	2.7	10		04/17/15 18:20	106-93-4	
Dibromomethane	ND	ug/L	10.0	2.1	10		04/17/15 18:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	3.0	10		04/17/15 18:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	2.4	10		04/17/15 18:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	3.3	10		04/17/15 18:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	2.1	10		04/17/15 18:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	3.2	10		04/17/15 18:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	1.2	10		04/17/15 18:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	5.6	10		04/17/15 18:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	1.9	10		04/17/15 18:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	4.9	10		04/17/15 18:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	2.7	10		04/17/15 18:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	2.8	10		04/17/15 18:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	1.3	10		04/17/15 18:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	4.9	10		04/17/15 18:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	1.3	10		04/17/15 18:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	2.6	10		04/17/15 18:20	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1.2	10		04/17/15 18:20	108-20-3	
Ethylbenzene	ND	ug/L	10.0	3.0	10		04/17/15 18:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	7.1	10		04/17/15 18:20	87-68-3	
2-Hexanone	ND	ug/L	50.0	4.6	10		04/17/15 18:20	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	3.1	10		04/17/15 18:20	99-87-6	
Methylene Chloride	42.4	ug/L	20.0	9.7	10		04/17/15 18:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	3.3	10		04/17/15 18:20	108-10-1	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GTW-605-802-6-2 **Lab ID: 92245073008** Collected: 04/10/15 12:40 Received: 04/11/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/L	10.0	2.1	10		04/17/15 18:20	1634-04-4	
Naphthalene	ND	ug/L	10.0	2.4	10		04/17/15 18:20	91-20-3	
Styrene	ND	ug/L	10.0	2.6	10		04/17/15 18:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	3.3	10		04/17/15 18:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	4.0	10		04/17/15 18:20	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	4.6	10		04/17/15 18:20	127-18-4	
Toluene	ND	ug/L	10.0	2.6	10		04/17/15 18:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	3.3	10		04/17/15 18:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	3.5	10		04/17/15 18:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	4.8	10		04/17/15 18:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	2.9	10		04/17/15 18:20	79-00-5	
Trichloroethene	ND	ug/L	10.0	4.7	10		04/17/15 18:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	2.0	10		04/17/15 18:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	4.1	10		04/17/15 18:20	96-18-4	
Vinyl acetate	ND	ug/L	20.0	3.5	10		04/17/15 18:20	108-05-4	
Vinyl chloride	ND	ug/L	10.0	6.2	10		04/17/15 18:20	75-01-4	
Xylene (Total)	ND	ug/L	20.0	6.6	10		04/17/15 18:20	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	6.6	10		04/17/15 18:20	179601-23-1	
o-Xylene	ND	ug/L	10.0	2.3	10		04/17/15 18:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		10		04/17/15 18:20	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		10		04/17/15 18:20	17060-07-0	
Toluene-d8 (S)	101	%	70-130		10		04/17/15 18:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GTW-605-802-9-2 Lab ID: 92245073009 Collected: 04/10/15 12:55 Received: 04/11/15 09:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510									
Diesel Range Organics(C10-C28)	ND	mg/L	0.50	0.10	1	04/17/15 17:00	04/19/15 19:13		
Surrogates									
n-Pentacosane (S)	56	%	48-110		1	04/17/15 17:00	04/19/15 19:13	629-99-2	
8015 GCS THC-Oil for SP Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510									
Oil Range Organics (C28-C40)	ND	mg/L	2.0	0.10	1	04/17/15 17:00	04/19/15 19:13		
Surrogates									
n-Pentacosane (S)	58	%	48-110		1	04/17/15 17:00	04/19/15 19:13	629-99-2	
Gasoline Range Organics Analytical Method: EPA 5030/8015 Mod.									
Gas Range Organics (C6-C10)	ND	mg/L	0.080	0.016	1		04/15/15 02:27		
Surrogates									
4-Bromofluorobenzene (S)	113	%	70-145		1		04/15/15 02:27	460-00-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Aluminum	24300	ug/L	100	50.0	1	04/14/15 14:15	04/15/15 20:56	7429-90-5	
Antimony	6.9	ug/L	5.0	3.9	1	04/14/15 14:15	04/15/15 20:56	7440-36-0	
Arsenic	10.6	ug/L	10.0	5.0	1	04/14/15 14:15	04/15/15 20:56	7440-38-2	
Barium	359	ug/L	5.0	2.5	1	04/14/15 14:15	04/15/15 20:56	7440-39-3	
Beryllium	1.5	ug/L	1.0	0.050	1	04/14/15 14:15	04/15/15 20:56	7440-41-7	
Cadmium	1.3	ug/L	1.0	0.050	1	04/14/15 14:15	04/15/15 20:56	7440-43-9	
Calcium	125000	ug/L	1000	500	10	04/14/15 14:15	04/16/15 12:28	7440-70-2	
Chromium	41.6	ug/L	5.0	2.5	1	04/14/15 14:15	04/15/15 20:56	7440-47-3	
Cobalt	82.2	ug/L	5.0	2.5	1	04/14/15 14:15	04/15/15 20:56	7440-48-4	
Copper	42.2	ug/L	5.0	2.5	1	04/14/15 14:15	04/15/15 20:56	7440-50-8	
Iron	45600	ug/L	50.0	25.0	1	04/14/15 14:15	04/15/15 20:56	7439-89-6	
Lead	30.2	ug/L	5.0	2.5	1	04/14/15 14:15	04/15/15 20:56	7439-92-1	
Magnesium	73900	ug/L	100	50.0	1	04/14/15 14:15	04/15/15 20:56	7439-95-4	
Manganese	17600	ug/L	50.0	25.0	10	04/14/15 14:15	04/16/15 12:28	7439-96-5	
Nickel	41.6	ug/L	5.0	2.5	1	04/14/15 14:15	04/15/15 20:56	7440-02-0	
Potassium	8780	ug/L	5000	2500	1	04/14/15 14:15	04/15/15 20:56	7440-09-7	
Selenium	ND	ug/L	10.0	5.0	1	04/14/15 14:15	04/15/15 20:56	7782-49-2	
Silver	3.9J	ug/L	5.0	2.5	1	04/14/15 14:15	04/15/15 20:56	7440-22-4	
Sodium	411000	ug/L	50000	25000	10	04/14/15 14:15	04/16/15 12:28	7440-23-5	
Thallium	ND	ug/L	10.0	5.0	1	04/14/15 14:15	04/15/15 20:56	7440-28-0	
Vanadium	69.8	ug/L	5.0	2.5	1	04/14/15 14:15	04/15/15 20:56	7440-62-2	
Zinc	107	ug/L	10.0	5.0	1	04/14/15 14:15	04/15/15 20:56	7440-66-6	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	ND	ug/L	0.20	0.10	1	04/15/15 10:50	04/16/15 14:40	7439-97-6	
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	20.0	2.2	1	04/17/15 10:30	04/19/15 15:55	83-32-9	L2
Acenaphthylene	ND	ug/L	20.0	2.0	1	04/17/15 10:30	04/19/15 15:55	208-96-8	L2
Aniline	ND	ug/L	20.0	1.6	1	04/17/15 10:30	04/19/15 15:55	62-53-3	L2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GTW-605-802-9-2 **Lab ID: 92245073009** Collected: 04/10/15 12:55 Received: 04/11/15 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Anthracene	ND	ug/L	20.0	0.94	1	04/17/15 10:30	04/19/15 15:55	120-12-7	
Benzo(a)anthracene	ND	ug/L	20.0	0.94	1	04/17/15 10:30	04/19/15 15:55	56-55-3	
Benzo(a)pyrene	ND	ug/L	20.0	1.1	1	04/17/15 10:30	04/19/15 15:55	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	20.0	0.88	1	04/17/15 10:30	04/19/15 15:55	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	20.0	0.90	1	04/17/15 10:30	04/19/15 15:55	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	20.0	1.1	1	04/17/15 10:30	04/19/15 15:55	207-08-9	
Benzoic Acid	ND	ug/L	100	9.8	1	04/17/15 10:30	04/19/15 15:55	65-85-0	L2
Benzyl alcohol	ND	ug/L	40.0	4.2	1	04/17/15 10:30	04/19/15 15:55	100-51-6	L2
4-Bromophenylphenyl ether	ND	ug/L	20.0	2.0	1	04/17/15 10:30	04/19/15 15:55	101-55-3	
Butylbenzylphthalate	ND	ug/L	20.0	0.96	1	04/17/15 10:30	04/19/15 15:55	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	40.0	4.0	1	04/17/15 10:30	04/19/15 15:55	59-50-7	L2
4-Chloroaniline	ND	ug/L	40.0	3.2	1	04/17/15 10:30	04/19/15 15:55	106-47-8	L2
bis(2-Chloroethoxy)methane	ND	ug/L	20.0	2.6	1	04/17/15 10:30	04/19/15 15:55	111-91-1	L2
bis(2-Chloroethyl) ether	ND	ug/L	20.0	1.8	1	04/17/15 10:30	04/19/15 15:55	111-44-4	L2
bis(2-Chloroisopropyl) ether	ND	ug/L	20.0	1.7	1	04/17/15 10:30	04/19/15 15:55	108-60-1	L2
2-Chloronaphthalene	ND	ug/L	20.0	2.0	1	04/17/15 10:30	04/19/15 15:55	91-58-7	L2
2-Chlorophenol	ND	ug/L	20.0	2.0	1	04/17/15 10:30	04/19/15 15:55	95-57-8	L2
4-Chlorophenylphenyl ether	ND	ug/L	20.0	2.2	1	04/17/15 10:30	04/19/15 15:55	7005-72-3	
Chrysene	ND	ug/L	20.0	0.98	1	04/17/15 10:30	04/19/15 15:55	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	20.0	0.98	1	04/17/15 10:30	04/19/15 15:55	53-70-3	
Dibenzofuran	ND	ug/L	20.0	2.0	1	04/17/15 10:30	04/19/15 15:55	132-64-9	L2
1,2-Dichlorobenzene	ND	ug/L	20.0	1.4	1	04/17/15 10:30	04/19/15 15:55	95-50-1	L2
1,3-Dichlorobenzene	ND	ug/L	20.0	1.6	1	04/17/15 10:30	04/19/15 15:55	541-73-1	L2
1,4-Dichlorobenzene	ND	ug/L	20.0	1.6	1	04/17/15 10:30	04/19/15 15:55	106-46-7	L2
3,3'-Dichlorobenzidine	ND	ug/L	40.0	1.4	1	04/17/15 10:30	04/19/15 15:55	91-94-1	
2,4-Dichlorophenol	ND	ug/L	20.0	1.7	1	04/17/15 10:30	04/19/15 15:55	120-83-2	L2
Diethylphthalate	ND	ug/L	20.0	1.8	1	04/17/15 10:30	04/19/15 15:55	84-66-2	
2,4-Dimethylphenol	ND	ug/L	20.0	1.9	1	04/17/15 10:30	04/19/15 15:55	105-67-9	L2
Dimethylphthalate	ND	ug/L	20.0	1.2	1	04/17/15 10:30	04/19/15 15:55	131-11-3	
Di-n-butylphthalate	ND	ug/L	20.0	0.74	1	04/17/15 10:30	04/19/15 15:55	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	40.0	2.2	1	04/17/15 10:30	04/19/15 15:55	534-52-1	
2,4-Dinitrophenol	ND	ug/L	100	5.0	1	04/17/15 10:30	04/19/15 15:55	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	20.0	1.8	1	04/17/15 10:30	04/19/15 15:55	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	20.0	4.2	1	04/17/15 10:30	04/19/15 15:55	606-20-2	
Di-n-octylphthalate	ND	ug/L	20.0	0.24	1	04/17/15 10:30	04/19/15 15:55	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	12.0	0.98	1	04/17/15 10:30	04/19/15 15:55	117-81-7	
Fluoranthene	ND	ug/L	20.0	0.82	1	04/17/15 10:30	04/19/15 15:55	206-44-0	
Fluorene	ND	ug/L	20.0	2.0	1	04/17/15 10:30	04/19/15 15:55	86-73-7	L2
Hexachloro-1,3-butadiene	ND	ug/L	20.0	1.8	1	04/17/15 10:30	04/19/15 15:55	87-68-3	L2
Hexachlorobenzene	ND	ug/L	20.0	1.5	1	04/17/15 10:30	04/19/15 15:55	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	20.0	2.2	1	04/17/15 10:30	04/19/15 15:55	77-47-4	L2
Hexachloroethane	ND	ug/L	20.0	1.8	1	04/17/15 10:30	04/19/15 15:55	67-72-1	L2
Indeno(1,2,3-cd)pyrene	ND	ug/L	20.0	1.1	1	04/17/15 10:30	04/19/15 15:55	193-39-5	
Isophorone	ND	ug/L	20.0	1.8	1	04/17/15 10:30	04/19/15 15:55	78-59-1	L2
1-Methylnaphthalene	ND	ug/L	20.0	1.8	1	04/17/15 10:30	04/19/15 15:55	90-12-0	L2
2-Methylnaphthalene	ND	ug/L	20.0	2.0	1	04/17/15 10:30	04/19/15 15:55	91-57-6	L2

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GTW-605-802-9-2 **Lab ID: 92245073009** Collected: 04/10/15 12:55 Received: 04/11/15 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
2-Methylphenol(o-Cresol)	ND	ug/L	20.0	2.0	1	04/17/15 10:30	04/19/15 15:55	95-48-7	L2
3&4-Methylphenol(m&p Cresol)	ND	ug/L	20.0	2.0	1	04/17/15 10:30	04/19/15 15:55		L2
Naphthalene	ND	ug/L	20.0	1.9	1	04/17/15 10:30	04/19/15 15:55	91-20-3	L2
2-Nitroaniline	ND	ug/L	100	3.0	1	04/17/15 10:30	04/19/15 15:55	88-74-4	L2
3-Nitroaniline	ND	ug/L	100	2.6	1	04/17/15 10:30	04/19/15 15:55	99-09-2	
4-Nitroaniline	ND	ug/L	40.0	3.2	1	04/17/15 10:30	04/19/15 15:55	100-01-6	
Nitrobenzene	ND	ug/L	20.0	2.0	1	04/17/15 10:30	04/19/15 15:55	98-95-3	L2
2-Nitrophenol	ND	ug/L	20.0	1.4	1	04/17/15 10:30	04/19/15 15:55	88-75-5	L2
4-Nitrophenol	ND	ug/L	100	7.8	1	04/17/15 10:30	04/19/15 15:55	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	20.0	1.9	1	04/17/15 10:30	04/19/15 15:55	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	20.0	1.7	1	04/17/15 10:30	04/19/15 15:55	621-64-7	L2
N-Nitrosodiphenylamine	ND	ug/L	20.0	1.3	1	04/17/15 10:30	04/19/15 15:55	86-30-6	
Pentachlorophenol	ND	ug/L	50.0	2.4	1	04/17/15 10:30	04/19/15 15:55	87-86-5	
Phenanthrene	ND	ug/L	20.0	1.1	1	04/17/15 10:30	04/19/15 15:55	85-01-8	
Phenol	ND	ug/L	20.0	2.2	1	04/17/15 10:30	04/19/15 15:55	108-95-2	L2
Pyrene	ND	ug/L	20.0	0.98	1	04/17/15 10:30	04/19/15 15:55	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	20.0	2.6	1	04/17/15 10:30	04/19/15 15:55	120-82-1	L2
2,4,5-Trichlorophenol	ND	ug/L	20.0	2.0	1	04/17/15 10:30	04/19/15 15:55	95-95-4	L2
2,4,6-Trichlorophenol	ND	ug/L	20.0	1.7	1	04/17/15 10:30	04/19/15 15:55	88-06-2	L2
Surrogates									
Nitrobenzene-d5 (S)	21	%	21-110		1	04/17/15 10:30	04/19/15 15:55	4165-60-0	1g,P2
2-Fluorobiphenyl (S)	22	%	27-110		1	04/17/15 10:30	04/19/15 15:55	321-60-8	S0
Terphenyl-d14 (S)	51	%	31-107		1	04/17/15 10:30	04/19/15 15:55	1718-51-0	
Phenol-d6 (S)	15	%	10-110		1	04/17/15 10:30	04/19/15 15:55	13127-88-3	
2-Fluorophenol (S)	18	%	12-110		1	04/17/15 10:30	04/19/15 15:55	367-12-4	
2,4,6-Tribromophenol (S)	61	%	27-110		1	04/17/15 10:30	04/19/15 15:55	118-79-6	
8260 MSV Low Level Analytical Method: EPA 8260									
Acetone	ND	ug/L	250	100	10		04/17/15 18:38	67-64-1	
Benzene	ND	ug/L	10.0	2.5	10		04/17/15 18:38	71-43-2	
Bromobenzene	ND	ug/L	10.0	3.0	10		04/17/15 18:38	108-86-1	
Bromochloromethane	ND	ug/L	10.0	1.7	10		04/17/15 18:38	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	1.8	10		04/17/15 18:38	75-27-4	
Bromoform	ND	ug/L	10.0	2.6	10		04/17/15 18:38	75-25-2	
Bromomethane	ND	ug/L	20.0	2.9	10		04/17/15 18:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	9.6	10		04/17/15 18:38	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	2.5	10		04/17/15 18:38	56-23-5	
Chlorobenzene	ND	ug/L	10.0	2.3	10		04/17/15 18:38	108-90-7	
Chloroethane	ND	ug/L	10.0	5.4	10		04/17/15 18:38	75-00-3	
Chloroform	ND	ug/L	10.0	1.4	10		04/17/15 18:38	67-66-3	
Chloromethane	ND	ug/L	10.0	1.1	10		04/17/15 18:38	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	3.5	10		04/17/15 18:38	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	3.1	10		04/17/15 18:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	20.0	10		04/17/15 18:38	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	2.1	10		04/17/15 18:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	2.7	10		04/17/15 18:38	106-93-4	

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ANALYTICAL RESULTS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Sample: GTW-605-802-9-2 **Lab ID: 92245073009** Collected: 04/10/15 12:55 Received: 04/11/15 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level									
Analytical Method: EPA 8260									
Dibromomethane	ND	ug/L	10.0	2.1	10		04/17/15 18:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	3.0	10		04/17/15 18:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	2.4	10		04/17/15 18:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	3.3	10		04/17/15 18:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	2.1	10		04/17/15 18:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	3.2	10		04/17/15 18:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	1.2	10		04/17/15 18:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	5.6	10		04/17/15 18:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	1.9	10		04/17/15 18:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	4.9	10		04/17/15 18:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	2.7	10		04/17/15 18:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	2.8	10		04/17/15 18:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	1.3	10		04/17/15 18:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	4.9	10		04/17/15 18:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	1.3	10		04/17/15 18:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	2.6	10		04/17/15 18:38	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	1.2	10		04/17/15 18:38	108-20-3	
Ethylbenzene	ND	ug/L	10.0	3.0	10		04/17/15 18:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	7.1	10		04/17/15 18:38	87-68-3	
2-Hexanone	ND	ug/L	50.0	4.6	10		04/17/15 18:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	3.1	10		04/17/15 18:38	99-87-6	
Methylene Chloride	11.7J	ug/L	20.0	9.7	10		04/17/15 18:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	3.3	10		04/17/15 18:38	108-10-1	
Methyl-tert-butyl ether	9.9J	ug/L	10.0	2.1	10		04/17/15 18:38	1634-04-4	
Naphthalene	ND	ug/L	10.0	2.4	10		04/17/15 18:38	91-20-3	
Styrene	ND	ug/L	10.0	2.6	10		04/17/15 18:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	3.3	10		04/17/15 18:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	4.0	10		04/17/15 18:38	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	4.6	10		04/17/15 18:38	127-18-4	
Toluene	ND	ug/L	10.0	2.6	10		04/17/15 18:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	3.3	10		04/17/15 18:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	3.5	10		04/17/15 18:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	4.8	10		04/17/15 18:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	2.9	10		04/17/15 18:38	79-00-5	
Trichloroethene	ND	ug/L	10.0	4.7	10		04/17/15 18:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	2.0	10		04/17/15 18:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	4.1	10		04/17/15 18:38	96-18-4	
Vinyl acetate	ND	ug/L	20.0	3.5	10		04/17/15 18:38	108-05-4	
Vinyl chloride	ND	ug/L	10.0	6.2	10		04/17/15 18:38	75-01-4	
Xylene (Total)	ND	ug/L	20.0	6.6	10		04/17/15 18:38	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	6.6	10		04/17/15 18:38	179601-23-1	
o-Xylene	ND	ug/L	10.0	2.3	10		04/17/15 18:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		10		04/17/15 18:38	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		10		04/17/15 18:38	17060-07-0	
Toluene-d8 (S)	101	%	70-130		10		04/17/15 18:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

QC Batch: GCV/9220 Analysis Method: EPA 8015 Modified
 QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
 Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004, 92245073005, 92245073006, 92245073007

METHOD BLANK: 1437590 Matrix: Solid
 Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004, 92245073005, 92245073006, 92245073007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	04/16/15 01:10	
4-Bromofluorobenzene (S)	%	113	70-167	04/16/15 01:10	

LABORATORY CONTROL SAMPLE: 1437591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	50	37.2	74	70-165	
4-Bromofluorobenzene (S)	%			112	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1437592 1437593

Parameter	Units	92245067005		1437592		1437593		% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Gas Range Organics (C6-C10)	mg/kg	75.6	39.5	39.5	132	120	143	113	47-187	9	30	
4-Bromofluorobenzene (S)	%						150	148	70-167			

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

QC Batch: GCV/9206 Analysis Method: EPA 5030/8015 Mod.
QC Batch Method: EPA 5030/8015 Mod. Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92245073008, 92245073009

METHOD BLANK: 1433949 Matrix: Water
Associated Lab Samples: 92245073008, 92245073009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	0.080	04/14/15 22:44	
4-Bromofluorobenzene (S)	%	105	70-145	04/14/15 22:44	

LABORATORY CONTROL SAMPLE: 1433950

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	1	1.1	108	70-150	
4-Bromofluorobenzene (S)	%			115	70-145	

SAMPLE DUPLICATE: 1433952

Parameter	Units	92245111001 Result	Dup Result	RPD	Max RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	ND		30	
4-Bromofluorobenzene (S)	%	106	112	5		

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

QC Batch:	MERP/7744	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
Associated Lab Samples:	92245073009		

METHOD BLANK: 1434827 Matrix: Water
Associated Lab Samples: 92245073009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/16/15 13:33	

LABORATORY CONTROL SAMPLE: 1434828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1434829 1434830

Parameter	Units	92245067001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	0.91	0.79	35	30	75-125	14	25	M1

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

QC Batch: MERP/7746 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004, 92245073006, 92245073007

METHOD BLANK: 1435471 Matrix: Solid
Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004, 92245073006, 92245073007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0050	04/17/15 15:04	

LABORATORY CONTROL SAMPLE: 1435472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.063	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1435473 1435474

Parameter	Units	92245067005 Result	MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Spike Conc.	Conc.							
Mercury	mg/kg	ND	.05	.056	0.052	0.056	97	94	75-125	8	20		

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

QC Batch: MERP/7748

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Associated Lab Samples: 92245073005

METHOD BLANK: 1436483

Matrix: Solid

Associated Lab Samples: 92245073005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0050	04/17/15 11:12	

LABORATORY CONTROL SAMPLE: 1436484

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.067	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1436488 1436489

Parameter	Units	92245059001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury	mg/kg	0.19	.05	.063	0.21	0.26	54	114	75-125	19	20	M6		

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

QC Batch: MPRP/18275 Analysis Method: EPA 6010
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET
 Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004, 92245073006, 92245073007

METHOD BLANK: 1434079 Matrix: Solid
 Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004, 92245073006, 92245073007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	ND	10.0	04/15/15 14:54	
Antimony	mg/kg	ND	0.50	04/15/15 14:54	
Arsenic	mg/kg	ND	1.0	04/15/15 14:54	
Barium	mg/kg	ND	0.50	04/15/15 14:54	
Beryllium	mg/kg	ND	0.10	04/15/15 14:54	
Cadmium	mg/kg	ND	0.10	04/15/15 14:54	
Calcium	mg/kg	ND	10.0	04/15/15 14:54	
Chromium	mg/kg	ND	0.50	04/15/15 14:54	
Cobalt	mg/kg	ND	0.50	04/15/15 14:54	
Copper	mg/kg	ND	0.50	04/15/15 14:54	
Iron	mg/kg	5.6J	10.0	04/15/15 14:54	
Lead	mg/kg	ND	0.50	04/15/15 14:54	
Magnesium	mg/kg	0.59J	10.0	04/15/15 14:54	
Manganese	mg/kg	ND	0.50	04/15/15 14:54	
Nickel	mg/kg	ND	0.50	04/15/15 14:54	
Potassium	mg/kg	ND	500	04/15/15 14:54	
Selenium	mg/kg	ND	1.0	04/15/15 14:54	
Silver	mg/kg	ND	0.50	04/15/15 14:54	
Sodium	mg/kg	ND	500	04/15/15 14:54	
Thallium	mg/kg	ND	1.0	04/15/15 14:54	
Vanadium	mg/kg	ND	0.50	04/15/15 14:54	
Zinc	mg/kg	ND	1.0	04/15/15 14:54	

LABORATORY CONTROL SAMPLE: 1434080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	500	497	99	80-120	
Antimony	mg/kg	50	50.2	100	80-120	
Arsenic	mg/kg	50	48.3	97	80-120	
Barium	mg/kg	50	49.3	99	80-120	
Beryllium	mg/kg	50	49.1	98	80-120	
Cadmium	mg/kg	50	49.2	98	80-120	
Calcium	mg/kg	500	482	96	80-120	
Chromium	mg/kg	50	48.7	97	80-120	
Cobalt	mg/kg	50	48.8	98	80-120	
Copper	mg/kg	50	49.9	100	80-120	
Iron	mg/kg	500	495	99	80-120	
Lead	mg/kg	50	48.6	97	80-120	
Magnesium	mg/kg	500	482	96	80-120	
Manganese	mg/kg	50	47.6	95	80-120	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

LABORATORY CONTROL SAMPLE: 1434080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nickel	mg/kg	50	48.0	96	80-120	
Potassium	mg/kg	500	501	100	80-120	
Selenium	mg/kg	50	48.8	98	80-120	
Silver	mg/kg	25	24.5	98	80-120	
Sodium	mg/kg	500	496J	99	80-120	
Thallium	mg/kg	50	45.4	91	80-120	
Vanadium	mg/kg	50	48.3	97	80-120	
Zinc	mg/kg	50	48.0	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1434081 1434082

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92243750001 Result	Spike Conc.	Spike Conc.	MS Result						
Aluminum	mg/kg	929	490	446	1390	1360	93	96	75-125	2	20
Antimony	mg/kg	0.70	49	44.6	47.7	43.1	96	95	75-125	10	20
Arsenic	mg/kg	ND	49	44.6	45.7	41.2	93	92	75-125	10	20
Barium	mg/kg	2610	49	44.6	2810	2790	399	399	75-125	1	20 M6
Beryllium	mg/kg	ND	49	44.6	48.5	44.3	99	99	75-125	9	20
Cadmium	mg/kg	0.13	49	44.6	46.7	42.0	95	94	75-125	11	20
Calcium	mg/kg	1790	490	446	2200	2180	85	88	75-125	1	20
Chromium	mg/kg	2.0	49	44.6	49.9	45.0	98	96	75-125	10	20
Cobalt	mg/kg	ND	49	44.6	46.0	41.7	94	93	75-125	10	20
Copper	mg/kg	5.0	49	44.6	53.3	48.8	98	98	75-125	9	20
Iron	mg/kg	27500	490	446	20200	14300	-1489	-2963	75-125	34	20 M6,R1
Lead	mg/kg	1.9	49	44.6	46.3	41.4	91	89	75-125	11	20
Magnesium	mg/kg	13700	490	446	14300	14300	119	116	75-125	0	20
Manganese	mg/kg	356	49	44.6	380	302	50	-121	75-125	23	20 M1,R1
Nickel	mg/kg	2.4	49	44.6	47.5	42.8	92	91	75-125	10	20
Potassium	mg/kg	ND	490	446	573	527	103	102	75-125	8	20
Selenium	mg/kg	ND	49	44.6	45.7	41.8	93	94	75-125	9	20
Silver	mg/kg	ND	24.5	22.3	23.2	20.8	94	92	75-125	11	20
Sodium	mg/kg	ND	490	446	542	496	101	101	75-125	9	20
Thallium	mg/kg	ND	49	44.6	32.2	27.7	65	61	75-125	15	20 M1
Vanadium	mg/kg	1.7	49	44.6	49.3	44.9	97	97	75-125	9	20
Zinc	mg/kg	7.4	49	44.6	49.8	45.7	87	86	75-125	9	20

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

QC Batch:	MPRP/18291	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	92245073005		

METHOD BLANK: 1436530 Matrix: Solid

Associated Lab Samples: 92245073005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	ND	10.0	04/20/15 13:57	
Antimony	mg/kg	ND	0.50	04/20/15 13:57	
Arsenic	mg/kg	ND	1.0	04/20/15 13:57	
Barium	mg/kg	ND	0.50	04/20/15 13:57	
Beryllium	mg/kg	ND	0.10	04/20/15 13:57	
Cadmium	mg/kg	ND	0.10	04/20/15 13:57	
Calcium	mg/kg	ND	10.0	04/20/15 13:57	
Chromium	mg/kg	ND	0.50	04/20/15 13:57	
Cobalt	mg/kg	ND	0.50	04/20/15 13:57	
Copper	mg/kg	ND	0.50	04/20/15 13:57	
Iron	mg/kg	ND	10.0	04/20/15 13:57	
Lead	mg/kg	ND	0.50	04/20/15 13:57	
Magnesium	mg/kg	ND	10.0	04/20/15 13:57	
Manganese	mg/kg	ND	0.50	04/20/15 13:57	
Nickel	mg/kg	ND	0.50	04/20/15 13:57	
Potassium	mg/kg	ND	500	04/20/15 13:57	
Selenium	mg/kg	ND	1.0	04/20/15 13:57	
Silver	mg/kg	ND	0.50	04/20/15 13:57	
Sodium	mg/kg	ND	500	04/20/15 13:57	
Thallium	mg/kg	ND	1.0	04/20/15 13:57	
Vanadium	mg/kg	ND	0.50	04/20/15 13:57	
Zinc	mg/kg	ND	1.0	04/20/15 13:57	

LABORATORY CONTROL SAMPLE: 1436531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	500	488	98	80-120	
Antimony	mg/kg	50	52.2	104	80-120	
Arsenic	mg/kg	50	49.6	99	80-120	
Barium	mg/kg	50	49.0	98	80-120	
Beryllium	mg/kg	50	49.0	98	80-120	
Cadmium	mg/kg	50	50.1	100	80-120	
Calcium	mg/kg	500	481	96	80-120	
Chromium	mg/kg	50	47.9	96	80-120	
Cobalt	mg/kg	50	50.8	102	80-120	
Copper	mg/kg	50	50.3	101	80-120	
Iron	mg/kg	500	488	98	80-120	
Lead	mg/kg	50	50.2	100	80-120	
Magnesium	mg/kg	500	481	96	80-120	
Manganese	mg/kg	50	48.5	97	80-120	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

LABORATORY CONTROL SAMPLE: 1436531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nickel	mg/kg	50	49.1	98	80-120	
Potassium	mg/kg	500	ND	100	80-120	
Selenium	mg/kg	50	50.6	101	80-120	
Silver	mg/kg	25	24.6	99	80-120	
Sodium	mg/kg	500	503	101	80-120	
Thallium	mg/kg	50	49.6	99	80-120	
Vanadium	mg/kg	50	49.3	99	80-120	
Zinc	mg/kg	50	49.3	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1436532 1436533

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92245059001 Result	Spike Conc.	Spike Conc.	MS Result						
Aluminum	mg/kg	4860	547	537	6380	6470	279	301	75-125	1	20 M1
Antimony	mg/kg	3.2	54.7	53.7	44.2	42.5	75	73	75-125	4	20 M1
Arsenic	mg/kg	14.8	54.7	53.7	60.4	59.3	83	83	75-125	2	20
Barium	mg/kg	246	54.7	53.7	270	267	45	40	75-125	1	20 M1
Beryllium	mg/kg	0.37	54.7	53.7	50.4	49.7	91	92	75-125	1	20
Cadmium	mg/kg	2.1	54.7	53.7	53.1	51.8	93	93	75-125	2	20
Calcium	mg/kg	9020	547	537	5620	5570	-622	-644	75-125	1	20 M1
Chromium	mg/kg	19.4	54.7	53.7	88.7	86.9	127	126	75-125	2	20 M1
Cobalt	mg/kg	5.8	54.7	53.7	57.1	55.6	94	93	75-125	3	20
Copper	mg/kg	104	54.7	53.7	150	146	85	79	75-125	3	20
Iron	mg/kg	24100	547	537	16500	16200	-1383	-1475	75-125	2	20 M6
Lead	mg/kg	475	54.7	53.7	509	498	62	42	75-125	2	20 M1
Magnesium	mg/kg	1500	547	537	2180	2140	126	120	75-125	2	20 M1
Manganese	mg/kg	297	54.7	53.7	276	269	-38	-52	75-125	3	20 M1
Nickel	mg/kg	15.3	54.7	53.7	63.9	62.3	89	88	75-125	3	20
Potassium	mg/kg	790	547	537	1300	1300	92	94	75-125	0	20
Selenium	mg/kg	ND	54.7	53.7	49.6	48.7	91	91	75-125	2	20
Silver	mg/kg	0.87	27.4	26.8	26.3	25.6	93	92	75-125	2	20
Sodium	mg/kg	399J	547	537	893	882	90	90	75-125	1	20
Thallium	mg/kg	ND	54.7	53.7	45.3	44.2	82	82	75-125	2	20
Vanadium	mg/kg	21.1	54.7	53.7	73.8	72.1	96	95	75-125	2	20
Zinc	mg/kg	371	54.7	53.7	387	376	28	10	75-125	3	20 M1

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

QC Batch: MPRP/18269 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 92245073009

METHOD BLANK: 1433711 Matrix: Water
Associated Lab Samples: 92245073009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	100	04/15/15 19:50	
Antimony	ug/L	ND	5.0	04/15/15 19:50	
Arsenic	ug/L	ND	10.0	04/15/15 19:50	
Barium	ug/L	ND	5.0	04/15/15 19:50	
Beryllium	ug/L	ND	1.0	04/15/15 19:50	
Cadmium	ug/L	ND	1.0	04/15/15 19:50	
Calcium	ug/L	ND	100	04/15/15 19:50	
Chromium	ug/L	ND	5.0	04/15/15 19:50	
Cobalt	ug/L	ND	5.0	04/15/15 19:50	
Copper	ug/L	ND	5.0	04/15/15 19:50	
Iron	ug/L	ND	50.0	04/15/15 19:50	
Lead	ug/L	ND	5.0	04/15/15 19:50	
Magnesium	ug/L	ND	100	04/15/15 19:50	
Manganese	ug/L	ND	5.0	04/15/15 19:50	
Nickel	ug/L	ND	5.0	04/15/15 19:50	
Potassium	ug/L	ND	5000	04/15/15 19:50	
Selenium	ug/L	ND	10.0	04/15/15 19:50	
Silver	ug/L	ND	5.0	04/15/15 19:50	
Sodium	ug/L	ND	5000	04/15/15 19:50	
Thallium	ug/L	ND	10.0	04/15/15 19:50	
Vanadium	ug/L	ND	5.0	04/15/15 19:50	
Zinc	ug/L	ND	10.0	04/15/15 19:50	

LABORATORY CONTROL SAMPLE: 1433712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	5220	104	80-120	
Antimony	ug/L	500	487	97	80-120	
Arsenic	ug/L	500	472	94	80-120	
Barium	ug/L	500	510	102	80-120	
Beryllium	ug/L	500	492	98	80-120	
Cadmium	ug/L	500	492	98	80-120	
Calcium	ug/L	5000	4990	100	80-120	
Chromium	ug/L	500	519	104	80-120	
Cobalt	ug/L	500	504	101	80-120	
Copper	ug/L	500	501	100	80-120	
Iron	ug/L	5000	4920	98	80-120	
Lead	ug/L	500	500	100	80-120	
Magnesium	ug/L	5000	5110	102	80-120	
Manganese	ug/L	500	482	96	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

LABORATORY CONTROL SAMPLE: 1433712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nickel	ug/L	500	481	96	80-120	
Potassium	ug/L	5000	5080	102	80-120	
Selenium	ug/L	500	473	95	80-120	
Silver	ug/L	250	248	99	80-120	
Sodium	ug/L	5000	5200	104	80-120	
Thallium	ug/L	500	456	91	80-120	
Vanadium	ug/L	500	491	98	80-120	
Zinc	ug/L	500	466	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1433713 1433714

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92245046008 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum	ug/L	428	5000	5000	5610	5500	104	101	75-125	2	20	
Antimony	ug/L	ND	500	500	495	491	99	98	75-125	1	20	
Arsenic	ug/L	ND	500	500	482	478	96	95	75-125	1	20	
Barium	ug/L	21.7	500	500	530	518	102	99	75-125	2	20	
Beryllium	ug/L	ND	500	500	492	481	98	96	75-125	2	20	
Cadmium	ug/L	ND	500	500	496	491	99	98	75-125	1	20	
Calcium	ug/L	37800	5000	5000	41800	41000	79	64	75-125	2	20	M1
Chromium	ug/L	ND	500	500	513	505	102	101	75-125	1	20	
Cobalt	ug/L	ND	500	500	499	492	100	98	75-125	1	20	
Copper	ug/L	7.1	500	500	510	506	101	100	75-125	1	20	
Iron	ug/L	19300	5000	5000	23500	23100	85	77	75-125	2	20	
Lead	ug/L	ND	500	500	496	489	99	98	75-125	2	20	
Magnesium	ug/L	1330	5000	5000	6290	6170	99	97	75-125	2	20	
Manganese	ug/L	134	500	500	604	595	94	92	75-125	1	20	
Nickel	ug/L	ND	500	500	477	471	95	94	75-125	1	20	
Potassium	ug/L	ND	5000	5000	8530	8450	100	99	75-125	1	20	
Selenium	ug/L	ND	500	500	472	469	94	94	75-125	1	20	
Silver	ug/L	ND	250	250	247	243	99	97	75-125	2	20	
Sodium	ug/L	25000	5000	5000	29400	28900	87	78	75-125	2	20	
Thallium	ug/L	ND	500	500	455	453	91	90	75-125	0	20	
Vanadium	ug/L	ND	500	500	494	486	98	97	75-125	2	20	
Zinc	ug/L	ND	500	500	458	451	91	90	75-125	1	20	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

QC Batch: MSV/31228

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92245073008, 92245073009

METHOD BLANK: 1436561

Matrix: Water

Associated Lab Samples: 92245073008, 92245073009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/17/15 14:56	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/17/15 14:56	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/17/15 14:56	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/17/15 14:56	
1,1-Dichloroethane	ug/L	ND	1.0	04/17/15 14:56	
1,1-Dichloroethene	ug/L	ND	1.0	04/17/15 14:56	
1,1-Dichloropropene	ug/L	ND	1.0	04/17/15 14:56	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	04/17/15 14:56	
1,2,3-Trichloropropane	ug/L	ND	1.0	04/17/15 14:56	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	04/17/15 14:56	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	04/17/15 14:56	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/17/15 14:56	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/17/15 14:56	
1,2-Dichloroethane	ug/L	ND	1.0	04/17/15 14:56	
1,2-Dichloropropane	ug/L	ND	1.0	04/17/15 14:56	
1,3-Dichlorobenzene	ug/L	ND	1.0	04/17/15 14:56	
1,3-Dichloropropane	ug/L	ND	1.0	04/17/15 14:56	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/17/15 14:56	
2,2-Dichloropropane	ug/L	ND	1.0	04/17/15 14:56	
2-Butanone (MEK)	ug/L	ND	5.0	04/17/15 14:56	
2-Chlorotoluene	ug/L	ND	1.0	04/17/15 14:56	
2-Hexanone	ug/L	ND	5.0	04/17/15 14:56	
4-Chlorotoluene	ug/L	ND	1.0	04/17/15 14:56	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/17/15 14:56	
Acetone	ug/L	ND	25.0	04/17/15 14:56	
Benzene	ug/L	ND	1.0	04/17/15 14:56	
Bromobenzene	ug/L	ND	1.0	04/17/15 14:56	
Bromochloromethane	ug/L	ND	1.0	04/17/15 14:56	
Bromodichloromethane	ug/L	ND	1.0	04/17/15 14:56	
Bromoform	ug/L	ND	1.0	04/17/15 14:56	
Bromomethane	ug/L	ND	2.0	04/17/15 14:56	
Carbon tetrachloride	ug/L	ND	1.0	04/17/15 14:56	
Chlorobenzene	ug/L	ND	1.0	04/17/15 14:56	
Chloroethane	ug/L	ND	1.0	04/17/15 14:56	
Chloroform	ug/L	ND	1.0	04/17/15 14:56	
Chloromethane	ug/L	ND	1.0	04/17/15 14:56	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/17/15 14:56	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/17/15 14:56	
Dibromochloromethane	ug/L	ND	1.0	04/17/15 14:56	
Dibromomethane	ug/L	ND	1.0	04/17/15 14:56	
Dichlorodifluoromethane	ug/L	ND	1.0	04/17/15 14:56	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

METHOD BLANK: 1436561

Matrix: Water

Associated Lab Samples: 92245073008, 92245073009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	04/17/15 14:56	
Ethylbenzene	ug/L	ND	1.0	04/17/15 14:56	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	04/17/15 14:56	
m&p-Xylene	ug/L	ND	2.0	04/17/15 14:56	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/17/15 14:56	
Methylene Chloride	ug/L	ND	2.0	04/17/15 14:56	
Naphthalene	ug/L	ND	1.0	04/17/15 14:56	
o-Xylene	ug/L	ND	1.0	04/17/15 14:56	
p-Isopropyltoluene	ug/L	ND	1.0	04/17/15 14:56	
Styrene	ug/L	ND	1.0	04/17/15 14:56	
Tetrachloroethene	ug/L	ND	1.0	04/17/15 14:56	
Toluene	ug/L	ND	1.0	04/17/15 14:56	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/17/15 14:56	
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/17/15 14:56	
Trichloroethene	ug/L	ND	1.0	04/17/15 14:56	
Trichlorofluoromethane	ug/L	ND	1.0	04/17/15 14:56	
Vinyl acetate	ug/L	ND	2.0	04/17/15 14:56	
Vinyl chloride	ug/L	ND	1.0	04/17/15 14:56	
Xylene (Total)	ug/L	ND	2.0	04/17/15 14:56	
1,2-Dichloroethane-d4 (S)	%	105	70-130	04/17/15 14:56	
4-Bromofluorobenzene (S)	%	103	70-130	04/17/15 14:56	
Toluene-d8 (S)	%	99	70-130	04/17/15 14:56	

LABORATORY CONTROL SAMPLE: 1436562

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.3	107	70-130	
1,1,1-Trichloroethane	ug/L	50	54.7	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.7	101	70-130	
1,1,2-Trichloroethane	ug/L	50	49.8	100	70-130	
1,1-Dichloroethane	ug/L	50	53.9	108	70-130	
1,1-Dichloroethene	ug/L	50	51.6	103	70-132	
1,1-Dichloropropene	ug/L	50	60.1	120	70-130	
1,2,3-Trichlorobenzene	ug/L	50	54.6	109	70-135	
1,2,3-Trichloropropane	ug/L	50	53.1	106	70-130	
1,2,4-Trichlorobenzene	ug/L	50	56.1	112	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	55.0	110	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.6	109	70-130	
1,2-Dichlorobenzene	ug/L	50	52.5	105	70-130	
1,2-Dichloroethane	ug/L	50	49.5	99	70-130	
1,2-Dichloropropane	ug/L	50	53.0	106	70-130	
1,3-Dichlorobenzene	ug/L	50	52.2	104	70-130	
1,3-Dichloropropane	ug/L	50	53.6	107	70-130	
1,4-Dichlorobenzene	ug/L	50	51.3	103	70-130	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

LABORATORY CONTROL SAMPLE: 1436562

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	54.0	108	58-145	
2-Butanone (MEK)	ug/L	100	93.6	94	70-145	
2-Chlorotoluene	ug/L	50	54.1	108	70-130	
2-Hexanone	ug/L	100	110	110	70-144	
4-Chlorotoluene	ug/L	50	53.6	107	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.7	97	70-140	
Acetone	ug/L	100	99.9	100	50-175	
Benzene	ug/L	50	52.6	105	70-130	
Bromobenzene	ug/L	50	52.7	105	70-130	
Bromochloromethane	ug/L	50	55.6	111	70-130	
Bromodichloromethane	ug/L	50	48.0	96	70-130	
Bromoform	ug/L	50	46.8	94	70-130	
Bromomethane	ug/L	50	51.9	104	54-130	
Carbon tetrachloride	ug/L	50	57.1	114	70-132	
Chlorobenzene	ug/L	50	52.8	106	70-130	
Chloroethane	ug/L	50	50.2	100	64-134	
Chloroform	ug/L	50	48.2	96	70-130	
Chloromethane	ug/L	50	50.7	101	64-130	
cis-1,2-Dichloroethene	ug/L	50	52.6	105	70-131	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	70-130	
Dibromochloromethane	ug/L	50	53.7	107	70-130	
Dibromomethane	ug/L	50	51.1	102	70-131	
Dichlorodifluoromethane	ug/L	50	51.0	102	56-130	
Diisopropyl ether	ug/L	50	52.7	105	70-130	
Ethylbenzene	ug/L	50	53.4	107	70-130	
Hexachloro-1,3-butadiene	ug/L	50	53.7	107	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	50.8	102	70-130	
Methylene Chloride	ug/L	50	54.3	109	63-130	
Naphthalene	ug/L	50	56.8	114	70-138	
o-Xylene	ug/L	50	53.1	106	70-130	
p-Isopropyltoluene	ug/L	50	53.4	107	70-130	
Styrene	ug/L	50	55.0	110	70-130	
Tetrachloroethene	ug/L	50	52.1	104	70-130	
Toluene	ug/L	50	51.0	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.4	107	70-130	
trans-1,3-Dichloropropene	ug/L	50	54.2	108	70-132	
Trichloroethene	ug/L	50	51.2	102	70-130	
Trichlorofluoromethane	ug/L	50	50.1	100	62-133	
Vinyl acetate	ug/L	100	105	105	66-157	
Vinyl chloride	ug/L	50	55.1	110	50-150	
Xylene (Total)	ug/L	150	160	106	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

MATRIX SPIKE SAMPLE:	1436563	92244804002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	22.1	111	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	24.8	124	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	22.3	112	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.7	108	70-130	
1,1-Dichloroethane	ug/L	ND	20	23.9	119	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.5	117	70-166	
1,1-Dichloropropene	ug/L	ND	20	29.0	145	70-130	M1
1,2,3-Trichlorobenzene	ug/L	ND	20	22.4	112	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	23.3	116	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	22.6	113	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	22.3	111	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	22.7	113	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	22.6	113	70-130	
1,2-Dichloroethane	ug/L	ND	20	21.8	109	70-130	
1,2-Dichloropropane	ug/L	ND	20	23.6	118	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	22.5	112	70-130	
1,3-Dichloropropane	ug/L	ND	20	22.9	114	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	21.0	104	70-130	
2,2-Dichloropropane	ug/L	ND	20	24.2	121	70-130	
2-Butanone (MEK)	ug/L	ND	40	40.2	100	70-130	
2-Chlorotoluene	ug/L	ND	20	23.5	117	70-130	
2-Hexanone	ug/L	ND	40	43.5	109	70-130	
4-Chlorotoluene	ug/L	ND	20	23.8	119	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40.7	102	70-130	
Acetone	ug/L	ND	40	37.9	95	70-130	
Benzene	ug/L	ND	20	23.4	117	70-148	
Bromobenzene	ug/L	ND	20	22.4	112	70-130	
Bromochloromethane	ug/L	ND	20	25.4	127	70-130	
Bromodichloromethane	ug/L	ND	20	20.2	101	70-130	
Bromoform	ug/L	ND	20	19.0	95	70-130	
Bromomethane	ug/L	ND	20	20.1	100	70-130	
Carbon tetrachloride	ug/L	ND	20	25.6	128	70-130	
Chlorobenzene	ug/L	ND	20	23.4	117	70-146	
Chloroethane	ug/L	ND	20	24.3	122	70-130	
Chloroform	ug/L	1.2	20	23.6	112	70-130	
Chloromethane	ug/L	ND	20	21.4	107	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	24.2	121	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	22.4	112	70-130	
Dibromochloromethane	ug/L	ND	20	21.1	105	70-130	
Dibromomethane	ug/L	ND	20	21.7	108	70-130	
Dichlorodifluoromethane	ug/L	ND	20	25.1	126	70-130	
Diisopropyl ether	ug/L	ND	20	21.8	109	70-130	
Ethylbenzene	ug/L	ND	20	23.1	115	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	25.4	127	70-130	
m&p-Xylene	ug/L	ND	40	47.9	120	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.9	104	70-130	
Methylene Chloride	ug/L	ND	20	22.7	114	70-130	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

MATRIX SPIKE SAMPLE: 1436563		92244804002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L	ND	20	22.5	113	70-130	
o-Xylene	ug/L	ND	20	23.4	117	70-130	
p-Isopropyltoluene	ug/L	ND	20	23.0	115	70-130	
Styrene	ug/L	ND	20	22.5	113	70-130	
Tetrachloroethene	ug/L	1.3	20	25.1	119	70-130	
Toluene	ug/L	ND	20	22.5	112	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	23.7	119	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	22.5	113	70-130	
Trichloroethene	ug/L	ND	20	22.9	113	69-151	
Trichlorofluoromethane	ug/L	0.24J	20	25.0	124	70-130	
Vinyl acetate	ug/L	ND	40	43.4	109	70-130	
Vinyl chloride	ug/L	ND	20	24.0	120	70-130	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				110	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1436564

Parameter	Units	92244804004	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

SAMPLE DUPLICATE: 1436564

Parameter	Units	92244804004 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	3.0	3.3	11	30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	1.9	2.1	10	30	
o-Xylene	ug/L	0.31J	0.34J		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	107	108	2		
4-Bromofluorobenzene (S)	%	108	109	1		
Toluene-d8 (S)	%	101	102	1		

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

QC Batch: MSV/31187 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92245073002, 92245073005, 92245073006

METHOD BLANK: 1433885 Matrix: Solid
Associated Lab Samples: 92245073002, 92245073005, 92245073006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.4	04/14/15 15:31	
1,1,1-Trichloroethane	ug/kg	ND	4.4	04/14/15 15:31	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.4	04/14/15 15:31	
1,1,2-Trichloroethane	ug/kg	ND	4.4	04/14/15 15:31	
1,1-Dichloroethane	ug/kg	ND	4.4	04/14/15 15:31	
1,1-Dichloroethene	ug/kg	ND	4.4	04/14/15 15:31	
1,1-Dichloropropene	ug/kg	ND	4.4	04/14/15 15:31	
1,2,3-Trichlorobenzene	ug/kg	ND	4.4	04/14/15 15:31	
1,2,3-Trichloropropane	ug/kg	ND	4.4	04/14/15 15:31	
1,2,4-Trichlorobenzene	ug/kg	ND	4.4	04/14/15 15:31	
1,2,4-Trimethylbenzene	ug/kg	ND	4.4	04/14/15 15:31	
1,2-Dibromo-3-chloropropane	ug/kg	ND	4.4	04/14/15 15:31	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.4	04/14/15 15:31	
1,2-Dichlorobenzene	ug/kg	ND	4.4	04/14/15 15:31	
1,2-Dichloroethane	ug/kg	ND	4.4	04/14/15 15:31	
1,2-Dichloropropane	ug/kg	ND	4.4	04/14/15 15:31	
1,3,5-Trimethylbenzene	ug/kg	ND	4.4	04/14/15 15:31	
1,3-Dichlorobenzene	ug/kg	ND	4.4	04/14/15 15:31	
1,3-Dichloropropane	ug/kg	ND	4.4	04/14/15 15:31	
1,4-Dichlorobenzene	ug/kg	ND	4.4	04/14/15 15:31	
2,2-Dichloropropane	ug/kg	ND	4.4	04/14/15 15:31	
2-Butanone (MEK)	ug/kg	ND	88.8	04/14/15 15:31	
2-Chlorotoluene	ug/kg	ND	4.4	04/14/15 15:31	
2-Hexanone	ug/kg	ND	44.4	04/14/15 15:31	
4-Chlorotoluene	ug/kg	ND	4.4	04/14/15 15:31	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	44.4	04/14/15 15:31	
Acetone	ug/kg	ND	88.8	04/14/15 15:31	
Benzene	ug/kg	ND	4.4	04/14/15 15:31	
Bromobenzene	ug/kg	ND	4.4	04/14/15 15:31	
Bromochloromethane	ug/kg	ND	4.4	04/14/15 15:31	
Bromodichloromethane	ug/kg	ND	4.4	04/14/15 15:31	
Bromoform	ug/kg	ND	4.4	04/14/15 15:31	
Bromomethane	ug/kg	ND	8.9	04/14/15 15:31	
Carbon tetrachloride	ug/kg	ND	4.4	04/14/15 15:31	
Chlorobenzene	ug/kg	ND	4.4	04/14/15 15:31	
Chloroethane	ug/kg	ND	8.9	04/14/15 15:31	
Chloroform	ug/kg	ND	4.4	04/14/15 15:31	
Chloromethane	ug/kg	ND	8.9	04/14/15 15:31	
cis-1,2-Dichloroethene	ug/kg	ND	4.4	04/14/15 15:31	
cis-1,3-Dichloropropene	ug/kg	ND	4.4	04/14/15 15:31	
Dibromochloromethane	ug/kg	ND	4.4	04/14/15 15:31	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

METHOD BLANK: 1433885

Matrix: Solid

Associated Lab Samples: 92245073002, 92245073005, 92245073006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	4.4	04/14/15 15:31	
Dichlorodifluoromethane	ug/kg	ND	8.9	04/14/15 15:31	
Diisopropyl ether	ug/kg	ND	4.4	04/14/15 15:31	
Ethylbenzene	ug/kg	ND	4.4	04/14/15 15:31	
Hexachloro-1,3-butadiene	ug/kg	ND	4.4	04/14/15 15:31	
Isopropylbenzene (Cumene)	ug/kg	ND	4.4	04/14/15 15:31	
m&p-Xylene	ug/kg	ND	8.9	04/14/15 15:31	
Methyl-tert-butyl ether	ug/kg	ND	4.4	04/14/15 15:31	
Methylene Chloride	ug/kg	ND	17.8	04/14/15 15:31	
n-Butylbenzene	ug/kg	ND	4.4	04/14/15 15:31	
n-Propylbenzene	ug/kg	ND	4.4	04/14/15 15:31	
Naphthalene	ug/kg	ND	4.4	04/14/15 15:31	
o-Xylene	ug/kg	ND	4.4	04/14/15 15:31	
p-Isopropyltoluene	ug/kg	ND	4.4	04/14/15 15:31	
sec-Butylbenzene	ug/kg	ND	4.4	04/14/15 15:31	
Styrene	ug/kg	ND	4.4	04/14/15 15:31	
tert-Butylbenzene	ug/kg	ND	4.4	04/14/15 15:31	
Tetrachloroethene	ug/kg	ND	4.4	04/14/15 15:31	
Toluene	ug/kg	ND	4.4	04/14/15 15:31	
trans-1,2-Dichloroethene	ug/kg	ND	4.4	04/14/15 15:31	
trans-1,3-Dichloropropene	ug/kg	ND	4.4	04/14/15 15:31	
Trichloroethene	ug/kg	ND	4.4	04/14/15 15:31	
Trichlorofluoromethane	ug/kg	ND	4.4	04/14/15 15:31	
Vinyl acetate	ug/kg	ND	44.4	04/14/15 15:31	
Vinyl chloride	ug/kg	ND	8.9	04/14/15 15:31	
Xylene (Total)	ug/kg	ND	8.9	04/14/15 15:31	
1,2-Dichloroethane-d4 (S)	%	107	70-132	04/14/15 15:31	
4-Bromofluorobenzene (S)	%	95	70-130	04/14/15 15:31	
Toluene-d8 (S)	%	101	70-130	04/14/15 15:31	

LABORATORY CONTROL SAMPLE: 1433886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	48.4	50.8	105	74-137	
1,1,1-Trichloroethane	ug/kg	48.4	47.3	98	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	48.4	44.0	91	72-141	
1,1,2-Trichloroethane	ug/kg	48.4	46.4	96	78-138	
1,1-Dichloroethane	ug/kg	48.4	44.8	92	69-134	
1,1-Dichloroethene	ug/kg	48.4	44.0	91	67-138	
1,1-Dichloropropene	ug/kg	48.4	48.8	101	69-139	
1,2,3-Trichlorobenzene	ug/kg	48.4	47.7	98	70-146	
1,2,3-Trichloropropane	ug/kg	48.4	50.9	105	69-144	
1,2,4-Trichlorobenzene	ug/kg	48.4	50.1	104	68-148	
1,2,4-Trimethylbenzene	ug/kg	48.4	52.2	108	74-137	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

LABORATORY CONTROL SAMPLE: 1433886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	48.4	53.9	111	65-140	
1,2-Dibromoethane (EDB)	ug/kg	48.4	52.6	109	77-135	
1,2-Dichlorobenzene	ug/kg	48.4	51.2	106	77-141	
1,2-Dichloroethane	ug/kg	48.4	46.5	96	65-137	
1,2-Dichloropropane	ug/kg	48.4	44.1	91	72-136	
1,3,5-Trimethylbenzene	ug/kg	48.4	50.7	105	76-133	
1,3-Dichlorobenzene	ug/kg	48.4	51.1	106	74-138	
1,3-Dichloropropane	ug/kg	48.4	49.5	102	71-139	
1,4-Dichlorobenzene	ug/kg	48.4	51.1	106	76-138	
2,2-Dichloropropane	ug/kg	48.4	46.0	95	68-137	
2-Butanone (MEK)	ug/kg	96.9	80.3J	83	58-147	
2-Chlorotoluene	ug/kg	48.4	48.0	99	73-139	
2-Hexanone	ug/kg	96.9	94.4	97	62-145	
4-Chlorotoluene	ug/kg	48.4	50.6	105	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	96.9	92.6	96	64-149	
Acetone	ug/kg	96.9	81.5J	84	53-153	
Benzene	ug/kg	48.4	48.1	99	73-135	
Bromobenzene	ug/kg	48.4	45.4	94	75-133	
Bromochloromethane	ug/kg	48.4	45.0	93	73-134	
Bromodichloromethane	ug/kg	48.4	44.5	92	71-135	
Bromoform	ug/kg	48.4	48.8	101	66-141	
Bromomethane	ug/kg	48.4	52.8	109	53-160	
Carbon tetrachloride	ug/kg	48.4	49.4	102	60-145	
Chlorobenzene	ug/kg	48.4	50.7	105	78-130	
Chloroethane	ug/kg	48.4	45.2	93	64-149	
Chloroform	ug/kg	48.4	42.3	87	70-134	
Chloromethane	ug/kg	48.4	46.5	96	52-150	
cis-1,2-Dichloroethene	ug/kg	48.4	45.7	94	70-133	
cis-1,3-Dichloropropene	ug/kg	48.4	46.9	97	68-134	
Dibromochloromethane	ug/kg	48.4	48.2	99	71-138	
Dibromomethane	ug/kg	48.4	47.3	98	74-130	
Dichlorodifluoromethane	ug/kg	48.4	52.0	107	40-160	
Diisopropyl ether	ug/kg	48.4	42.4	88	69-141	
Ethylbenzene	ug/kg	48.4	51.6	106	75-133	
Hexachloro-1,3-butadiene	ug/kg	48.4	49.9	103	68-143	
Isopropylbenzene (Cumene)	ug/kg	48.4	52.4	108	76-143	
m&p-Xylene	ug/kg	96.9	117	120	75-136	
Methyl-tert-butyl ether	ug/kg	48.4	44.2	91	68-144	
Methylene Chloride	ug/kg	48.4	54.4	112	45-154	
n-Butylbenzene	ug/kg	48.4	52.5	108	72-137	
n-Propylbenzene	ug/kg	48.4	56.6	117	76-136	
Naphthalene	ug/kg	48.4	52.1	108	68-151	
o-Xylene	ug/kg	48.4	49.7	103	76-141	
p-Isopropyltoluene	ug/kg	48.4	51.6	107	76-140	
sec-Butylbenzene	ug/kg	48.4	50.2	104	79-139	
Styrene	ug/kg	48.4	53.0	109	79-137	
tert-Butylbenzene	ug/kg	48.4	50.2	104	74-143	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

LABORATORY CONTROL SAMPLE: 1433886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	48.4	52.0	107	71-138	
Toluene	ug/kg	48.4	46.8	97	74-131	
trans-1,2-Dichloroethene	ug/kg	48.4	44.5	92	67-135	
trans-1,3-Dichloropropene	ug/kg	48.4	50.3	104	65-146	
Trichloroethene	ug/kg	48.4	51.5	106	67-135	
Trichlorofluoromethane	ug/kg	48.4	47.7	98	59-144	
Vinyl acetate	ug/kg	96.9	143	148	40-160	
Vinyl chloride	ug/kg	48.4	45.9	95	56-141	
Xylene (Total)	ug/kg	145	166	114	76-137	
1,2-Dichloroethane-d4 (S)	%			102	70-132	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1434896

Parameter	Units	92244872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	19.9	17.6	89	70-130	
1,1,1-Trichloroethane	ug/kg	ND	19.9	19.4	98	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	ND	19.9	18.4	93	70-130	
1,1,2-Trichloroethane	ug/kg	ND	19.9	18.9	95	70-130	
1,1-Dichloroethane	ug/kg	ND	19.9	19.9	100	70-130	
1,1-Dichloroethene	ug/kg	ND	19.9	19.1	96	49-180	
1,1-Dichloropropene	ug/kg	ND	19.9	21.8	110	70-130	
1,2,3-Trichlorobenzene	ug/kg	ND	19.9	12.4	62	70-130	M1
1,2,3-Trichloropropane	ug/kg	ND	19.9	19.2	96	70-130	
1,2,4-Trichlorobenzene	ug/kg	ND	19.9	13.3	67	70-130	M1
1,2,4-Trimethylbenzene	ug/kg	ND	19.9	19.0	96	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	ND	19.9	19.2	97	70-130	
1,2-Dibromoethane (EDB)	ug/kg	ND	19.9	17.9	90	70-130	
1,2-Dichlorobenzene	ug/kg	ND	19.9	16.8	85	70-130	
1,2-Dichloroethane	ug/kg	ND	19.9	19.0	96	70-130	
1,2-Dichloropropane	ug/kg	ND	19.9	19.0	96	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	19.9	19.5	98	70-130	
1,3-Dichlorobenzene	ug/kg	ND	19.9	16.9	85	70-130	
1,3-Dichloropropane	ug/kg	ND	19.9	19.4	98	70-130	
1,4-Dichlorobenzene	ug/kg	ND	19.9	17.3	87	70-130	
2,2-Dichloropropane	ug/kg	ND	19.9	19.5	98	70-130	
2-Butanone (MEK)	ug/kg	ND	39.7	35.3J	89	70-130	
2-Chlorotoluene	ug/kg	ND	19.9	21.0	106	70-130	
2-Hexanone	ug/kg	ND	39.7	28.9J	73	70-130	
4-Chlorotoluene	ug/kg	ND	19.9	18.5	93	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	39.7	34.4J	87	70-130	
Acetone	ug/kg	ND	39.7	44.4J	112	70-130	
Benzene	ug/kg	ND	19.9	20.1	101	50-166	
Bromobenzene	ug/kg	ND	19.9	18.7	94	70-130	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

MATRIX SPIKE SAMPLE: 1434896		92244872001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromochloromethane	ug/kg	ND	19.9	18.8	95	70-130	
Bromodichloromethane	ug/kg	ND	19.9	16.4	82	70-130	
Bromoform	ug/kg	ND	19.9	15.8	80	70-130	
Bromomethane	ug/kg	ND	19.9	22.0	111	70-130	
Carbon tetrachloride	ug/kg	ND	19.9	19.7	99	70-130	
Chlorobenzene	ug/kg	ND	19.9	18.7	94	43-169	
Chloroethane	ug/kg	ND	19.9	22.1	111	70-130	
Chloroform	ug/kg	ND	19.9	17.7	89	70-130	
Chloromethane	ug/kg	ND	19.9	22.2	112	70-130	
cis-1,2-Dichloroethene	ug/kg	ND	19.9	18.9	95	70-130	
cis-1,3-Dichloropropene	ug/kg	ND	19.9	17.8	90	70-130	
Dibromochloromethane	ug/kg	ND	19.9	17.0	86	70-130	
Dibromomethane	ug/kg	ND	19.9	18.4	93	70-130	
Dichlorodifluoromethane	ug/kg	ND	19.9	21.6	109	70-130	
Diisopropyl ether	ug/kg	ND	19.9	17.3	87	70-130	
Ethylbenzene	ug/kg	ND	19.9	20.1	101	70-130	
Hexachloro-1,3-butadiene	ug/kg	ND	19.9	16.0	80	70-130	
Isopropylbenzene (Cumene)	ug/kg	ND	19.9	20.3	102	70-130	
m&p-Xylene	ug/kg	ND	39.7	39.7	100	70-130	
Methyl-tert-butyl ether	ug/kg	ND	19.9	18.2	92	70-130	
Methylene Chloride	ug/kg	ND	19.9	20.5	51	70-130	M1
n-Butylbenzene	ug/kg	ND	19.9	19.0	96	70-130	
n-Propylbenzene	ug/kg	ND	19.9	20.8	105	70-130	
Naphthalene	ug/kg	ND	19.9	16.6	84	70-130	
o-Xylene	ug/kg	ND	19.9	19.0	96	70-130	
p-Isopropyltoluene	ug/kg	ND	19.9	19.6	99	70-130	
sec-Butylbenzene	ug/kg	ND	19.9	21.5	108	70-130	
Styrene	ug/kg	ND	19.9	18.0	90	70-130	
tert-Butylbenzene	ug/kg	ND	19.9	19.9	100	70-130	
Tetrachloroethene	ug/kg	ND	19.9	19.5	98	70-130	
Toluene	ug/kg	ND	19.9	19.6	98	52-163	
trans-1,2-Dichloroethene	ug/kg	ND	19.9	19.4	98	70-130	
trans-1,3-Dichloropropene	ug/kg	ND	19.9	17.5	88	70-130	
Trichloroethene	ug/kg	ND	19.9	19.3	97	49-167	
Trichlorofluoromethane	ug/kg	ND	19.9	21.6	109	70-130	
Vinyl acetate	ug/kg	ND	39.7	37.3J	94	70-130	
Vinyl chloride	ug/kg	ND	19.9	22.8	115	70-130	
1,2-Dichloroethane-d4 (S)	%				107	70-132	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1434895

Parameter	Units	92244621005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

SAMPLE DUPLICATE: 1434895

Parameter	Units	92244621005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
2-Hexanone	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Diisopropyl ether	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
m&p-Xylene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

SAMPLE DUPLICATE: 1434895

Parameter	Units	92244621005 Result	Dup Result	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
o-Xylene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl acetate	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	124	102	25		
4-Bromofluorobenzene (S)	%	101	95	12		
Toluene-d8 (S)	%	100	103	2		

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

QC Batch: MSV/31202 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92245073001, 92245073003, 92245073004, 92245073007

METHOD BLANK: 1435054 Matrix: Solid
Associated Lab Samples: 92245073001, 92245073003, 92245073004, 92245073007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.6	04/15/15 13:39	
1,1,1-Trichloroethane	ug/kg	ND	4.6	04/15/15 13:39	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.6	04/15/15 13:39	
1,1,2-Trichloroethane	ug/kg	ND	4.6	04/15/15 13:39	
1,1-Dichloroethane	ug/kg	ND	4.6	04/15/15 13:39	
1,1-Dichloroethene	ug/kg	ND	4.6	04/15/15 13:39	
1,1-Dichloropropene	ug/kg	ND	4.6	04/15/15 13:39	
1,2,3-Trichlorobenzene	ug/kg	ND	4.6	04/15/15 13:39	
1,2,3-Trichloropropane	ug/kg	ND	4.6	04/15/15 13:39	
1,2,4-Trichlorobenzene	ug/kg	ND	4.6	04/15/15 13:39	
1,2,4-Trimethylbenzene	ug/kg	ND	4.6	04/15/15 13:39	
1,2-Dibromo-3-chloropropane	ug/kg	ND	4.6	04/15/15 13:39	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.6	04/15/15 13:39	
1,2-Dichlorobenzene	ug/kg	ND	4.6	04/15/15 13:39	
1,2-Dichloroethane	ug/kg	ND	4.6	04/15/15 13:39	
1,2-Dichloropropane	ug/kg	ND	4.6	04/15/15 13:39	
1,3,5-Trimethylbenzene	ug/kg	ND	4.6	04/15/15 13:39	
1,3-Dichlorobenzene	ug/kg	ND	4.6	04/15/15 13:39	
1,3-Dichloropropane	ug/kg	ND	4.6	04/15/15 13:39	
1,4-Dichlorobenzene	ug/kg	ND	4.6	04/15/15 13:39	
2,2-Dichloropropane	ug/kg	ND	4.6	04/15/15 13:39	
2-Butanone (MEK)	ug/kg	ND	91.7	04/15/15 13:39	
2-Chlorotoluene	ug/kg	ND	4.6	04/15/15 13:39	
2-Hexanone	ug/kg	ND	45.9	04/15/15 13:39	
4-Chlorotoluene	ug/kg	ND	4.6	04/15/15 13:39	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	45.9	04/15/15 13:39	
Acetone	ug/kg	ND	91.7	04/15/15 13:39	
Benzene	ug/kg	ND	4.6	04/15/15 13:39	
Bromobenzene	ug/kg	ND	4.6	04/15/15 13:39	
Bromochloromethane	ug/kg	ND	4.6	04/15/15 13:39	
Bromodichloromethane	ug/kg	ND	4.6	04/15/15 13:39	
Bromoform	ug/kg	ND	4.6	04/15/15 13:39	
Bromomethane	ug/kg	ND	9.2	04/15/15 13:39	
Carbon tetrachloride	ug/kg	ND	4.6	04/15/15 13:39	
Chlorobenzene	ug/kg	ND	4.6	04/15/15 13:39	
Chloroethane	ug/kg	ND	9.2	04/15/15 13:39	
Chloroform	ug/kg	ND	4.6	04/15/15 13:39	
Chloromethane	ug/kg	ND	9.2	04/15/15 13:39	
cis-1,2-Dichloroethene	ug/kg	ND	4.6	04/15/15 13:39	
cis-1,3-Dichloropropene	ug/kg	ND	4.6	04/15/15 13:39	
Dibromochloromethane	ug/kg	ND	4.6	04/15/15 13:39	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

METHOD BLANK: 1435054

Matrix: Solid

Associated Lab Samples: 92245073001, 92245073003, 92245073004, 92245073007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	4.6	04/15/15 13:39	
Dichlorodifluoromethane	ug/kg	ND	9.2	04/15/15 13:39	
Diisopropyl ether	ug/kg	ND	4.6	04/15/15 13:39	
Ethylbenzene	ug/kg	ND	4.6	04/15/15 13:39	
Hexachloro-1,3-butadiene	ug/kg	ND	4.6	04/15/15 13:39	
Isopropylbenzene (Cumene)	ug/kg	ND	4.6	04/15/15 13:39	
m&p-Xylene	ug/kg	ND	9.2	04/15/15 13:39	
Methyl-tert-butyl ether	ug/kg	ND	4.6	04/15/15 13:39	
Methylene Chloride	ug/kg	ND	18.3	04/15/15 13:39	
n-Butylbenzene	ug/kg	ND	4.6	04/15/15 13:39	
n-Propylbenzene	ug/kg	ND	4.6	04/15/15 13:39	
Naphthalene	ug/kg	ND	4.6	04/15/15 13:39	
o-Xylene	ug/kg	ND	4.6	04/15/15 13:39	
p-Isopropyltoluene	ug/kg	ND	4.6	04/15/15 13:39	
sec-Butylbenzene	ug/kg	ND	4.6	04/15/15 13:39	
Styrene	ug/kg	ND	4.6	04/15/15 13:39	
tert-Butylbenzene	ug/kg	ND	4.6	04/15/15 13:39	
Tetrachloroethene	ug/kg	ND	4.6	04/15/15 13:39	
Toluene	ug/kg	ND	4.6	04/15/15 13:39	
trans-1,2-Dichloroethene	ug/kg	ND	4.6	04/15/15 13:39	
trans-1,3-Dichloropropene	ug/kg	ND	4.6	04/15/15 13:39	
Trichloroethene	ug/kg	ND	4.6	04/15/15 13:39	
Trichlorofluoromethane	ug/kg	ND	4.6	04/15/15 13:39	
Vinyl acetate	ug/kg	ND	45.9	04/15/15 13:39	
Vinyl chloride	ug/kg	ND	9.2	04/15/15 13:39	
Xylene (Total)	ug/kg	ND	9.2	04/15/15 13:39	
1,2-Dichloroethane-d4 (S)	%	105	70-132	04/15/15 13:39	
4-Bromofluorobenzene (S)	%	98	70-130	04/15/15 13:39	
Toluene-d8 (S)	%	102	70-130	04/15/15 13:39	

LABORATORY CONTROL SAMPLE: 1435055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	46.7	45.2	97	74-137	
1,1,1-Trichloroethane	ug/kg	46.7	53.0	113	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	46.7	38.4	82	72-141	
1,1,2-Trichloroethane	ug/kg	46.7	45.7	98	78-138	
1,1-Dichloroethane	ug/kg	46.7	55.4	119	69-134	
1,1-Dichloroethene	ug/kg	46.7	51.5	110	67-138	
1,1-Dichloropropene	ug/kg	46.7	59.9	128	69-139	
1,2,3-Trichlorobenzene	ug/kg	46.7	45.7	98	70-146	
1,2,3-Trichloropropane	ug/kg	46.7	50.5	108	69-144	
1,2,4-Trichlorobenzene	ug/kg	46.7	44.3	95	68-148	
1,2,4-Trimethylbenzene	ug/kg	46.7	45.3	97	74-137	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

LABORATORY CONTROL SAMPLE: 1435055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	46.7	46.4	99	65-140	
1,2-Dibromoethane (EDB)	ug/kg	46.7	46.0	98	77-135	
1,2-Dichlorobenzene	ug/kg	46.7	44.6	95	77-141	
1,2-Dichloroethane	ug/kg	46.7	53.8	115	65-137	
1,2-Dichloropropane	ug/kg	46.7	46.4	99	72-136	
1,3,5-Trimethylbenzene	ug/kg	46.7	44.9	96	76-133	
1,3-Dichlorobenzene	ug/kg	46.7	44.2	95	74-138	
1,3-Dichloropropane	ug/kg	46.7	47.7	102	71-139	
1,4-Dichlorobenzene	ug/kg	46.7	44.1	94	76-138	
2,2-Dichloropropane	ug/kg	46.7	53.6	115	68-137	
2-Butanone (MEK)	ug/kg	93.5	104	112	58-147	
2-Chlorotoluene	ug/kg	46.7	48.9	105	73-139	
2-Hexanone	ug/kg	93.5	98.1	105	62-145	
4-Chlorotoluene	ug/kg	46.7	44.4	95	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	93.5	91.3	98	64-149	
Acetone	ug/kg	93.5	97.0	104	53-153	
Benzene	ug/kg	46.7	45.8	98	73-135	
Bromobenzene	ug/kg	46.7	46.6	100	75-133	
Bromochloromethane	ug/kg	46.7	53.8	115	73-134	
Bromodichloromethane	ug/kg	46.7	40.6	87	71-135	
Bromoform	ug/kg	46.7	42.2	90	66-141	
Bromomethane	ug/kg	46.7	65.0	139	53-160	
Carbon tetrachloride	ug/kg	46.7	46.0	98	60-145	
Chlorobenzene	ug/kg	46.7	46.1	99	78-130	
Chloroethane	ug/kg	46.7	62.6	134	64-149	
Chloroform	ug/kg	46.7	49.9	107	70-134	
Chloromethane	ug/kg	46.7	57.9	124	52-150	
cis-1,2-Dichloroethene	ug/kg	46.7	55.0	118	70-133	
cis-1,3-Dichloropropene	ug/kg	46.7	46.3	99	68-134	
Dibromochloromethane	ug/kg	46.7	43.0	92	71-138	
Dibromomethane	ug/kg	46.7	44.4	95	74-130	
Dichlorodifluoromethane	ug/kg	46.7	56.0	120	40-160	
Diisopropyl ether	ug/kg	46.7	51.8	111	69-141	
Ethylbenzene	ug/kg	46.7	47.3	101	75-133	
Hexachloro-1,3-butadiene	ug/kg	46.7	42.3	91	68-143	
Isopropylbenzene (Cumene)	ug/kg	46.7	48.7	104	76-143	
m&p-Xylene	ug/kg	93.5	93.7	100	75-136	
Methyl-tert-butyl ether	ug/kg	46.7	51.2	110	68-144	
Methylene Chloride	ug/kg	46.7	53.2	114	45-154	
n-Butylbenzene	ug/kg	46.7	44.2	95	72-137	
n-Propylbenzene	ug/kg	46.7	45.6	98	76-136	
Naphthalene	ug/kg	46.7	46.6	100	68-151	
o-Xylene	ug/kg	46.7	46.6	100	76-141	
p-Isopropyltoluene	ug/kg	46.7	44.0	94	76-140	
sec-Butylbenzene	ug/kg	46.7	47.5	102	79-139	
Styrene	ug/kg	46.7	47.7	102	79-137	
tert-Butylbenzene	ug/kg	46.7	44.9	96	74-143	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

LABORATORY CONTROL SAMPLE: 1435055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	46.7	44.9	96	71-138	
Toluene	ug/kg	46.7	45.0	96	74-131	
trans-1,2-Dichloroethene	ug/kg	46.7	53.7	115	67-135	
trans-1,3-Dichloropropene	ug/kg	46.7	46.5	99	65-146	
Trichloroethene	ug/kg	46.7	49.1	105	67-135	
Trichlorofluoromethane	ug/kg	46.7	56.6	121	59-144	
Vinyl acetate	ug/kg	93.5	143	153	40-160	
Vinyl chloride	ug/kg	46.7	60.3	129	56-141	
Xylene (Total)	ug/kg	140	140	100	76-137	
1,2-Dichloroethane-d4 (S)	%			122	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 1436127

Parameter	Units	92245040009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	19.4	22.2	114	70-130	
1,1,1-Trichloroethane	ug/kg	ND	19.4	21.7	112	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	ND	19.4	26.2	135	70-130	M1
1,1,2-Trichloroethane	ug/kg	ND	19.4	26.5	137	70-130	M1
1,1-Dichloroethane	ug/kg	ND	19.4	23.1	119	70-130	
1,1-Dichloroethene	ug/kg	ND	19.4	21.4	110	49-180	
1,1-Dichloropropene	ug/kg	ND	19.4	23.0	119	70-130	
1,2,3-Trichlorobenzene	ug/kg	ND	19.4	21.5	111	70-130	
1,2,3-Trichloropropane	ug/kg	ND	19.4	28.3	146	70-130	M1
1,2,4-Trichlorobenzene	ug/kg	ND	19.4	19.7	102	70-130	
1,2,4-Trimethylbenzene	ug/kg	ND	19.4	19.6	101	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	ND	19.4	28.9	149	70-130	M1
1,2-Dibromoethane (EDB)	ug/kg	ND	19.4	26.7	138	70-130	M1
1,2-Dichlorobenzene	ug/kg	ND	19.4	21.2	109	70-130	
1,2-Dichloroethane	ug/kg	ND	19.4	26.0	134	70-130	M1
1,2-Dichloropropane	ug/kg	ND	19.4	22.1	114	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	19.4	19.3	100	70-130	
1,3-Dichlorobenzene	ug/kg	ND	19.4	19.7	102	70-130	
1,3-Dichloropropane	ug/kg	ND	19.4	25.2	130	70-130	
1,4-Dichlorobenzene	ug/kg	ND	19.4	20.1	104	70-130	
2,2-Dichloropropane	ug/kg	ND	19.4	20.5	106	70-130	
2-Butanone (MEK)	ug/kg	ND	38.7	57.0J	108	70-130	
2-Chlorotoluene	ug/kg	ND	19.4	19.8	102	70-130	
2-Hexanone	ug/kg	ND	38.7	54.2	140	70-130	M1
4-Chlorotoluene	ug/kg	ND	19.4	19.6	101	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	38.7	56.7	146	70-130	M1
Acetone	ug/kg	191	38.7	148	-111	70-130	M1
Benzene	ug/kg	ND	19.4	21.3	110	50-166	
Bromobenzene	ug/kg	ND	19.4	21.1	109	70-130	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

MATRIX SPIKE SAMPLE: 1436127		92245040009	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromochloromethane	ug/kg	ND	19.4	25.3	131	70-130	M1
Bromodichloromethane	ug/kg	ND	19.4	20.5	106	70-130	
Bromoform	ug/kg	ND	19.4	21.6	112	70-130	
Bromomethane	ug/kg	ND	19.4	23.2	120	70-130	
Carbon tetrachloride	ug/kg	ND	19.4	19.3	100	70-130	
Chlorobenzene	ug/kg	ND	19.4	21.0	109	43-169	
Chloroethane	ug/kg	ND	19.4	22.3	115	70-130	
Chloroform	ug/kg	ND	19.4	20.7	107	70-130	
Chloromethane	ug/kg	ND	19.4	22.2	114	70-130	
cis-1,2-Dichloroethene	ug/kg	ND	19.4	22.4	115	70-130	
cis-1,3-Dichloropropene	ug/kg	ND	19.4	22.9	118	70-130	
Dibromochloromethane	ug/kg	ND	19.4	21.6	112	70-130	
Dibromomethane	ug/kg	ND	19.4	25.4	131	70-130	M1
Dichlorodifluoromethane	ug/kg	ND	19.4	20.0	103	70-130	
Diisopropyl ether	ug/kg	ND	19.4	25.4	131	70-130	M1
Ethylbenzene	ug/kg	ND	19.4	20.4	105	70-130	
Hexachloro-1,3-butadiene	ug/kg	ND	19.4	17.2	89	70-130	
Isopropylbenzene (Cumene)	ug/kg	ND	19.4	20.4	105	70-130	
m&p-Xylene	ug/kg	ND	38.7	40.6	104	70-130	
Methyl-tert-butyl ether	ug/kg	ND	19.4	29.6	152	70-130	M1
Methylene Chloride	ug/kg	ND	19.4	18.7J	33	70-130	M1
n-Butylbenzene	ug/kg	ND	19.4	18.1	94	70-130	
n-Propylbenzene	ug/kg	ND	19.4	18.9	97	70-130	
Naphthalene	ug/kg	ND	19.4	26.2	133	70-130	M1
o-Xylene	ug/kg	ND	19.4	20.5	106	70-130	
p-Isopropyltoluene	ug/kg	ND	19.4	18.1	93	70-130	
sec-Butylbenzene	ug/kg	ND	19.4	18.7	96	70-130	
Styrene	ug/kg	ND	19.4	22.2	115	70-130	
tert-Butylbenzene	ug/kg	ND	19.4	18.7	97	70-130	
Tetrachloroethene	ug/kg	ND	19.4	20.3	105	70-130	
Toluene	ug/kg	ND	19.4	21.7	111	52-163	
trans-1,2-Dichloroethene	ug/kg	ND	19.4	22.3	115	70-130	
trans-1,3-Dichloropropene	ug/kg	ND	19.4	24.4	126	70-130	
Trichloroethene	ug/kg	ND	19.4	21.3	110	49-167	
Trichlorofluoromethane	ug/kg	ND	19.4	22.2	115	70-130	
Vinyl acetate	ug/kg	ND	38.7	104	268	70-130	M1
Vinyl chloride	ug/kg	ND	19.4	21.8	112	70-130	
1,2-Dichloroethane-d4 (S)	%				118	70-132	
4-Bromofluorobenzene (S)	%				105	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1436128

Parameter	Units	92245420001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg		ND			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

SAMPLE DUPLICATE: 1436128

Parameter	Units	92245420001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg		ND			
1,1,2,2-Tetrachloroethane	ug/kg		ND			
1,1,2-Trichloroethane	ug/kg		ND			
1,1-Dichloroethane	ug/kg		ND			
1,1-Dichloroethene	ug/kg		ND			
1,1-Dichloropropene	ug/kg		ND			
1,2,3-Trichlorobenzene	ug/kg		ND			
1,2,3-Trichloropropane	ug/kg		ND			
1,2,4-Trichlorobenzene	ug/kg		ND			
1,2,4-Trimethylbenzene	ug/kg		ND			
1,2-Dibromo-3-chloropropane	ug/kg		ND			
1,2-Dibromoethane (EDB)	ug/kg		ND			
1,2-Dichlorobenzene	ug/kg		ND			
1,2-Dichloroethane	ug/kg		ND			
1,2-Dichloropropane	ug/kg		ND			
1,3,5-Trimethylbenzene	ug/kg		ND			
1,3-Dichlorobenzene	ug/kg		ND			
1,3-Dichloropropane	ug/kg		ND			
1,4-Dichlorobenzene	ug/kg		ND			
2,2-Dichloropropane	ug/kg		ND			
2-Butanone (MEK)	ug/kg		ND			
2-Chlorotoluene	ug/kg		ND			
2-Hexanone	ug/kg		ND			
4-Chlorotoluene	ug/kg		ND			
4-Methyl-2-pentanone (MIBK)	ug/kg		ND			
Acetone	ug/kg		ND			
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg		ND			
Bromochloromethane	ug/kg		ND			
Bromodichloromethane	ug/kg		ND			
Bromoform	ug/kg		ND			
Bromomethane	ug/kg		ND			
Carbon tetrachloride	ug/kg		ND			
Chlorobenzene	ug/kg		ND			
Chloroethane	ug/kg		ND			
Chloroform	ug/kg		ND			
Chloromethane	ug/kg		ND			
cis-1,2-Dichloroethene	ug/kg		ND			
cis-1,3-Dichloropropene	ug/kg		ND			
Dibromochloromethane	ug/kg		ND			
Dibromomethane	ug/kg		ND			
Dichlorodifluoromethane	ug/kg		ND			
Diisopropyl ether	ug/kg		ND			
Ethylbenzene	ug/kg	ND	ND		30	
Hexachloro-1,3-butadiene	ug/kg		ND			
Isopropylbenzene (Cumene)	ug/kg		ND			
m&p-Xylene	ug/kg		ND		30	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

SAMPLE DUPLICATE: 1436128

Parameter	Units	92245420001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	ug/kg		ND			
Methylene Chloride	ug/kg		ND			
n-Butylbenzene	ug/kg		ND			
n-Propylbenzene	ug/kg		ND			
Naphthalene	ug/kg		ND			
o-Xylene	ug/kg		ND		30	
p-Isopropyltoluene	ug/kg		ND			
sec-Butylbenzene	ug/kg		ND			
Styrene	ug/kg		ND			
tert-Butylbenzene	ug/kg		ND			
Tetrachloroethene	ug/kg		ND			
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg		ND			
trans-1,3-Dichloropropene	ug/kg		ND			
Trichloroethene	ug/kg		ND			
Trichlorofluoromethane	ug/kg		ND			
Vinyl acetate	ug/kg		ND			
Vinyl chloride	ug/kg		ND			
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	153	115	35		
4-Bromofluorobenzene (S)	%	88	80	15		
Toluene-d8 (S)	%	95	108	7		

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

QC Batch: OEXT/34293 Analysis Method: EPA 8015 Modified
 QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
 Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004, 92245073005, 92245073006, 92245073007

METHOD BLANK: 1435533 Matrix: Solid
 Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004, 92245073005, 92245073006, 92245073007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	5.0	04/16/15 10:55	
n-Pentacosane (S)	%	88	41-119	04/16/15 10:55	

LABORATORY CONTROL SAMPLE: 1435534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	66.7	43.1	65	49-113	
n-Pentacosane (S)	%			70	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1435535 1435536

Parameter	Units	92245067008		1435536		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Diesel Range Organics(C10-C28)	mg/kg	351	76	76	559	690	273	445	10-146	21	30 M3
n-Pentacosane (S)	%						69	74	41-119		

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

QC Batch: OEXT/34306 Analysis Method: EPA 8015 Modified
 QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV ORO
 Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004, 92245073005, 92245073006, 92245073007

METHOD BLANK: 1435820 Matrix: Solid
 Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004, 92245073005, 92245073006, 92245073007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil Range Organics (C28-C40)	mg/kg	ND	15.0	04/19/15 21:12	
n-Pentacosane (S)	%	82	41-119	04/19/15 21:12	

LABORATORY CONTROL SAMPLE: 1435821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil Range Organics (C28-C40)	mg/kg	83.3	78.7	94	50-150	
n-Pentacosane (S)	%			84	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1435822 1435823

Parameter	Units	92244992007		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Oil Range Organics (C28-C40)	mg/kg	ND	97	97	90.3	90.9	91	92	10-150	1	30		
n-Pentacosane (S)	%						82	83	41-119				

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

QC Batch:	OEXT/34368	Analysis Method:	EPA 8015 Modified
QC Batch Method:	EPA 3510	Analysis Description:	8015 GCS
Associated Lab Samples:	92245073009		

METHOD BLANK: 1437879 Matrix: Water

Associated Lab Samples: 92245073009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/L	ND	0.50	04/18/15 02:13	
n-Pentacosane (S)	%	71	48-110	04/18/15 02:13	

LABORATORY CONTROL SAMPLE & LCSD: 1437880

1437881

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics(C10-C28)	mg/L	10	5.2	5.5	52	55	41-114	6	30	
n-Pentacosane (S)	%				91	84	48-110			

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

QC Batch:	OEXT/34367	Analysis Method:	EPA 8015 Modified
QC Batch Method:	EPA 3510	Analysis Description:	8015 GCS ORO
Associated Lab Samples:	92245073009		

METHOD BLANK: 1437872 Matrix: Water

Associated Lab Samples: 92245073009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil Range Organics (C28-C40)	mg/L	ND	2.0	04/19/15 22:00	
n-Pentacosane (S)	%	78	48-110	04/19/15 22:00	

LABORATORY CONTROL SAMPLE & LCSD: 1437873

1437874

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Oil Range Organics (C28-C40)	mg/L	12.5	8.3	8.7	66	70	50-150	5	30	
n-Pentacosane (S)	%				64	66	48-110			

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

QC Batch: OEXT/34330 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004, 92245073005, 92245073006, 92245073007

METHOD BLANK: 1436789 Matrix: Solid
Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004, 92245073005, 92245073006, 92245073007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	04/17/15 13:10	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	04/17/15 13:10	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	04/17/15 13:10	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	04/17/15 13:10	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	04/17/15 13:10	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	04/17/15 13:10	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	04/17/15 13:10	
Decachlorobiphenyl (S)	%	84	21-132	04/17/15 13:10	

LABORATORY CONTROL SAMPLE & LCSD: 1436790

Parameter	Units	1436791						% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec					
PCB-1016 (Aroclor 1016)	ug/kg	167	127	130	76	78	31-120	3	30		
PCB-1260 (Aroclor 1260)	ug/kg	167	143	153	86	92	32-120	7	30		
Decachlorobiphenyl (S)	%				90	92	21-132				

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

QC Batch: OEXT/34440 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave PAH
Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004, 92245073005, 92245073006, 92245073007

METHOD BLANK: 1439577 Matrix: Solid
Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004, 92245073005, 92245073006, 92245073007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	330	04/21/15 17:18	
2-Methylnaphthalene	ug/kg	ND	330	04/21/15 17:18	
Acenaphthene	ug/kg	ND	330	04/21/15 17:18	
Acenaphthylene	ug/kg	ND	330	04/21/15 17:18	
Anthracene	ug/kg	ND	330	04/21/15 17:18	
Benzo(a)anthracene	ug/kg	ND	330	04/21/15 17:18	
Benzo(a)pyrene	ug/kg	ND	330	04/21/15 17:18	
Benzo(b)fluoranthene	ug/kg	ND	330	04/21/15 17:18	
Benzo(g,h,i)perylene	ug/kg	ND	330	04/21/15 17:18	
Benzo(k)fluoranthene	ug/kg	ND	330	04/21/15 17:18	
Chrysene	ug/kg	ND	330	04/21/15 17:18	
Dibenz(a,h)anthracene	ug/kg	ND	330	04/21/15 17:18	
Fluoranthene	ug/kg	ND	330	04/21/15 17:18	
Fluorene	ug/kg	ND	330	04/21/15 17:18	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	04/21/15 17:18	
Naphthalene	ug/kg	ND	330	04/21/15 17:18	
Phenanthrene	ug/kg	ND	330	04/21/15 17:18	
Pyrene	ug/kg	ND	330	04/21/15 17:18	
2-Fluorobiphenyl (S)	%	43	30-110	04/21/15 17:18	
Nitrobenzene-d5 (S)	%	47	23-110	04/21/15 17:18	
Terphenyl-d14 (S)	%	79	28-110	04/21/15 17:18	

LABORATORY CONTROL SAMPLE & LCSD: 1439578 1439579

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/kg	1670	912	944	55	57	40-120	3	30	
2-Methylnaphthalene	ug/kg	1670	826	830	50	50	26-120	0	30	
Acenaphthene	ug/kg	1670	923	957	55	57	46-120	4	30	
Acenaphthylene	ug/kg	1670	936	963	56	58	46-120	3	30	
Anthracene	ug/kg	1670	1290	1290	77	78	63-120	0	30	
Benzo(a)anthracene	ug/kg	1670	1220	1240	73	74	61-120	2	30	
Benzo(a)pyrene	ug/kg	1670	1250	1270	75	76	59-120	2	30	
Benzo(b)fluoranthene	ug/kg	1670	1210	1280	72	77	55-120	6	30	
Benzo(g,h,i)perylene	ug/kg	1670	1110	1200	66	72	57-120	8	30	
Benzo(k)fluoranthene	ug/kg	1670	1180	1210	71	73	56-120	3	30	
Chrysene	ug/kg	1670	1220	1220	73	73	64-120	1	30	
Dibenz(a,h)anthracene	ug/kg	1670	1150	1250	69	75	56-120	8	30	
Fluoranthene	ug/kg	1670	1390	1370	83	82	61-120	1	30	
Fluorene	ug/kg	1670	1190	1150	72	69	51-120	3	30	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1150	1230	69	74	58-120	7	30	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

LABORATORY CONTROL SAMPLE & LCSD: 1439578		1439579									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Naphthalene	ug/kg	1670	923	949	55	57	38-120	3	30		
Phenanthrene	ug/kg	1670	1290	1300	77	78	62-120	1	30		
Pyrene	ug/kg	1670	1180	1200	71	72	63-120	2	30		
2-Fluorobiphenyl (S)	%				48	50	30-110				
Nitrobenzene-d5 (S)	%				55	55	23-110				
Terphenyl-d14 (S)	%				79	81	28-110				

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

QC Batch: PMST/7723 Analysis Method: ASTM D2974-87
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 92245073001, 92245073002, 92245073003, 92245073004

SAMPLE DUPLICATE: 1433747

Parameter	Units	92245020001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.3	17.7	8	25	

SAMPLE DUPLICATE: 1433748

Parameter	Units	92245040009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.3	12.7	4	25	

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QUALITY CONTROL DATA

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

QC Batch: PMST/7733 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92245073005, 92245073006, 92245073007

SAMPLE DUPLICATE: 1434951

Parameter	Units	92245076001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	24.8	23.4	6	25	

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QUALIFIERS

Project: Buzzard Point 40223-002 Rev1
Pace Project No.: 92245073

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville
PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g Reanalysis conducted in excess of EPA method holding time. Results for this sample confirm original analysis performed in hold time.
2g The internal standard response is below criteria. No hits associated with this internal standard. Results unaffected by high bias.
C9 Common Laboratory Contaminant.
D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
IO The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis.
L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.
M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.
R1 RPD value was outside control limits.
S0 Surrogate recovery outside laboratory control limits.

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QUALIFIERS

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

ANALYTE QUALIFIERS

- S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
- S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.
- S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92245073001	GSS-603-800-1-1	EPA 3546	OEXT/34293	EPA 8015 Modified	GCSV/20967
92245073002	GSS-603-800-1-2	EPA 3546	OEXT/34293	EPA 8015 Modified	GCSV/20967
92245073003	GSS-603-800-3-1	EPA 3546	OEXT/34293	EPA 8015 Modified	GCSV/20967
92245073004	GSS-603-800-3-2	EPA 3546	OEXT/34293	EPA 8015 Modified	GCSV/20967
92245073005	GSS-603-800-2-1	EPA 3546	OEXT/34293	EPA 8015 Modified	GCSV/20967
92245073006	GSS-603-800-2-2	EPA 3546	OEXT/34293	EPA 8015 Modified	GCSV/20967
92245073007	GTW-605-802-7-1	EPA 3546	OEXT/34293	EPA 8015 Modified	GCSV/20967
92245073001	GSS-603-800-1-1	EPA 3546	OEXT/34306	EPA 8015 Modified	GCSV/20976
92245073002	GSS-603-800-1-2	EPA 3546	OEXT/34306	EPA 8015 Modified	GCSV/20976
92245073003	GSS-603-800-3-1	EPA 3546	OEXT/34306	EPA 8015 Modified	GCSV/20976
92245073004	GSS-603-800-3-2	EPA 3546	OEXT/34306	EPA 8015 Modified	GCSV/20976
92245073005	GSS-603-800-2-1	EPA 3546	OEXT/34306	EPA 8015 Modified	GCSV/20976
92245073006	GSS-603-800-2-2	EPA 3546	OEXT/34306	EPA 8015 Modified	GCSV/20976
92245073007	GTW-605-802-7-1	EPA 3546	OEXT/34306	EPA 8015 Modified	GCSV/20976
92245073009	GTW-605-802-9-2	EPA 3510	OEXT/34368	EPA 8015 Modified	GCSV/20998
92245073009	GTW-605-802-9-2	EPA 3510	OEXT/34367	EPA 8015 Modified	GCSV/20999
92245073001	GSS-603-800-1-1	EPA 3546	OEXT/34330	EPA 8082	GCSV/20988
92245073002	GSS-603-800-1-2	EPA 3546	OEXT/34330	EPA 8082	GCSV/20988
92245073003	GSS-603-800-3-1	EPA 3546	OEXT/34330	EPA 8082	GCSV/20988
92245073004	GSS-603-800-3-2	EPA 3546	OEXT/34330	EPA 8082	GCSV/20988
92245073005	GSS-603-800-2-1	EPA 3546	OEXT/34330	EPA 8082	GCSV/20988
92245073006	GSS-603-800-2-2	EPA 3546	OEXT/34330	EPA 8082	GCSV/20988
92245073007	GTW-605-802-7-1	EPA 3546	OEXT/34330	EPA 8082	GCSV/20988
92245073001	GSS-603-800-1-1	EPA 5035A/5030B	GCV/9220	EPA 8015 Modified	GCV/9221
92245073002	GSS-603-800-1-2	EPA 5035A/5030B	GCV/9220	EPA 8015 Modified	GCV/9221
92245073003	GSS-603-800-3-1	EPA 5035A/5030B	GCV/9220	EPA 8015 Modified	GCV/9221
92245073004	GSS-603-800-3-2	EPA 5035A/5030B	GCV/9220	EPA 8015 Modified	GCV/9221
92245073005	GSS-603-800-2-1	EPA 5035A/5030B	GCV/9220	EPA 8015 Modified	GCV/9221
92245073006	GSS-603-800-2-2	EPA 5035A/5030B	GCV/9220	EPA 8015 Modified	GCV/9221
92245073007	GTW-605-802-7-1	EPA 5035A/5030B	GCV/9220	EPA 8015 Modified	GCV/9221
92245073008	GTW-605-802-6-2	EPA 5030/8015 Mod.	GCV/9206		
92245073009	GTW-605-802-9-2	EPA 5030/8015 Mod.	GCV/9206		
92245073001	GSS-603-800-1-1	EPA 3050	MPRP/18275	EPA 6010	ICP/16408
92245073002	GSS-603-800-1-2	EPA 3050	MPRP/18275	EPA 6010	ICP/16408
92245073003	GSS-603-800-3-1	EPA 3050	MPRP/18275	EPA 6010	ICP/16408
92245073004	GSS-603-800-3-2	EPA 3050	MPRP/18275	EPA 6010	ICP/16408
92245073005	GSS-603-800-2-1	EPA 3050	MPRP/18291	EPA 6010	ICP/16424
92245073006	GSS-603-800-2-2	EPA 3050	MPRP/18275	EPA 6010	ICP/16408
92245073007	GTW-605-802-7-1	EPA 3050	MPRP/18275	EPA 6010	ICP/16408
92245073009	GTW-605-802-9-2	EPA 3010	MPRP/18269	EPA 6010	ICP/16407
92245073009	GTW-605-802-9-2	EPA 7470	MERP/7744	EPA 7470	MERC/7427
92245073001	GSS-603-800-1-1	EPA 7471	MERP/7746	EPA 7471	MERC/7430
92245073002	GSS-603-800-1-2	EPA 7471	MERP/7746	EPA 7471	MERC/7430

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Buzzard Point 40223-002 Rev1

Pace Project No.: 92245073

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92245073003	GSS-603-800-3-1	EPA 7471	MERP/7746	EPA 7471	MERC/7430
92245073004	GSS-603-800-3-2	EPA 7471	MERP/7746	EPA 7471	MERC/7430
92245073005	GSS-603-800-2-1	EPA 7471	MERP/7748	EPA 7471	MERC/7432
92245073006	GSS-603-800-2-2	EPA 7471	MERP/7746	EPA 7471	MERC/7430
92245073007	GTW-605-802-7-1	EPA 7471	MERP/7746	EPA 7471	MERC/7430
92245073001	GSS-603-800-1-1	EPA 3546	OEXT/34440	EPA 8270	MSSV/10568
92245073002	GSS-603-800-1-2	EPA 3546	OEXT/34440	EPA 8270	MSSV/10568
92245073003	GSS-603-800-3-1	EPA 3546	OEXT/34440	EPA 8270	MSSV/10568
92245073004	GSS-603-800-3-2	EPA 3546	OEXT/34440	EPA 8270	MSSV/10568
92245073005	GSS-603-800-2-1	EPA 3546	OEXT/34440	EPA 8270	MSSV/10568
92245073006	GSS-603-800-2-2	EPA 3546	OEXT/34440	EPA 8270	MSSV/10568
92245073007	GTW-605-802-7-1	EPA 3546	OEXT/34440	EPA 8270	MSSV/10568
92245073009	GTW-605-802-9-2	EPA 3510	OEXT/34347	EPA 8270	MSSV/10559
92245073008	GTW-605-802-6-2	EPA 8260	MSV/31228		
92245073009	GTW-605-802-9-2	EPA 8260	MSV/31228		
92245073001	GSS-603-800-1-1	EPA 8260	MSV/31202		
92245073002	GSS-603-800-1-2	EPA 8260	MSV/31187		
92245073003	GSS-603-800-3-1	EPA 8260	MSV/31202		
92245073004	GSS-603-800-3-2	EPA 8260	MSV/31202		
92245073005	GSS-603-800-2-1	EPA 8260	MSV/31187		
92245073006	GSS-603-800-2-2	EPA 8260	MSV/31187		
92245073007	GTW-605-802-7-1	EPA 8260	MSV/31202		
92245073001	GSS-603-800-1-1	ASTM D2974-87	PMST/7723		
92245073002	GSS-603-800-1-2	ASTM D2974-87	PMST/7723		
92245073003	GSS-603-800-3-1	ASTM D2974-87	PMST/7723		
92245073004	GSS-603-800-3-2	ASTM D2974-87	PMST/7723		
92245073005	GSS-603-800-2-1	ASTM D2974-87	PMST/7733		
92245073006	GSS-603-800-2-2	ASTM D2974-87	PMST/7733		
92245073007	GTW-605-802-7-1	ASTM D2974-87	PMST/7733		

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Document Name: **Sample Condition Upon Receipt (SCUR)**

Document Revised: September 22, 2014

Document Number: **F-CHR-CS-003-rev.15**

Page 1 of 2

Issuing Authority: **Pace Huntersville Quality Office**

Client Name: Haley + Aldrich

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble V ip Bubble Bags None Other _____

Thermometer Used: IR Gun T1401 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 5.1 °C

Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: AG 9/11/15

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>NO GRO on #7</u>
Correct Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>AD: 9/11/15</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:

lll

Date:

9/11/15

SRF Review:

AD

Date:

09/13/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92245073



92245073

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page: of 1907013
Company: Malley + Aldrich	Report To: Dave Schoenwold	Attention: Accounts Payable	
Address: 7926 Jones Branch Dr MClean VA	Copy To: Dana Kennard dkennard@malleyaldrich.com	Company Name: Malley + Aldrich	REGULATORY AGENCY
Email To: dschoenwold@malleyaldrich.com	Purchase Order No.:	Address: 70 Blanchard Rd Suite 200 Burlington, MA	
Phone: 703-336-0244 Fax: -	Project Name: Buzzard Pond	Pace Quote Reference: Nicole Benjamin	Site Location: WASH DC
Requested Due Date/TAT: 5+d	Project Number: 40223-002	Pace Profile #: 7362-P3	STATE: DC

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other (specify Pres H ₂ O)													
			DATE	TIME	DATE	TIME																							
1	GSS-603-800-1-1	SLG	4/10	800			11	5						2	2	X	X	X	X	X	X							001	
2	GSS-603-800-1-2			815			11									X	X	X	X	X	X							002	
3	GSS-603-800-3-1			845			11									X	X	X	X	X	X							003	
4	GSS-603-800-3-2			900			11									X	X	X	X	X	X							004	
5	GSS-603-800-2-1			915			11									X	X	X	X	X	X							005	
6	GSS-603-800-2-2			930			11									X	X	X	X	X	X							006	
7	GSS-605-802-7-1	WT		945			11									X	X	X	X	X	X							007	
8	GTW-605-802-8			1240			4		4								X	X	X	X	X								
9	GTW-605-802-9			1255			11		16								X	X	X	X	X								
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
4oz Jars 3-2 and later, and water samples in 2nd cooler	Margaret King	4/10	4:00	Fedex 8070 2974 Amy Pang / Rita 53	4/10	9:00	5.1 ✓ M U

ORIGINAL	SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):	Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)
-----------------	------------------------------------------------------------------------------------------	-------------------------	--------------------------------------------------------------------------------------------

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Page 90 of 90

May 29, 2015

Dana Kennard
Haley & Aldrich, Inc

RE: Project: Buzzard Point, GW Rev3
Pace Project No.: 92246759

Dear Dana Kennard:

Enclosed are the analytical results for sample(s) received by the laboratory on April 23, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This report was revised to alter sample IDs, per client request, it was also revised to report down to the MDL for all parameters.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Nicole Benjamin
nicole.benjamin@pacelabs.com
Project Manager

Enclosures

cc: Karin Holland
Pam Minor



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92246759001	GSS-605-802-10-1	Solid	04/21/15 12:36	04/23/15 09:40
92246759002	GSS-605-802-12-1	Solid	04/22/15 16:00	04/23/15 09:40
92246759003	DP-001-S0-100-01	Solid	04/22/15 13:30	04/23/15 09:40
92246759004	DP-002-S0-100-01	Solid	04/22/15 12:57	04/23/15 09:40
92246759005	DP-002-S0-100-01	Solid	04/22/15 12:57	04/23/15 09:40
92246759006	DP-002-S0-100-01	Solid	04/22/15 12:57	04/23/15 09:40

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SAMPLE ANALYTE COUNT

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92246759001	GSS-605-802-10-1	EPA 8015 Modified	CMI	2	PASI-C
		EPA 8082	SWB	8	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		EPA 7471	HVK	1	PASI-A
		ASTM D2974-87	EJK	1	PASI-C
92246759002	GSS-605-802-12-1	EPA 8015 Modified	CMI	2	PASI-C
		EPA 8082	SWB	8	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		EPA 7471	HVK	1	PASI-A
		ASTM D2974-87	EJK	1	PASI-C
92246759003	DP-001-S0-100-01	EPA 8015 Modified	CMI	2	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		EPA 7471	HVK	1	PASI-A
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	EJK	1	PASI-C
92246759004	DP-002-S0-100-01	EPA 8015 Modified	CMI	2	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		ASTM D2974-87	EJK	1	PASI-C
92246759005	DP-002-S0-100-01	EPA 8270	BPJ	21	PASI-C
		EPA 8260	DLK	70	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92246759006	DP-002-S0-100-01	EPA 6010	JMW	22	PASI-A
		EPA 7471	HVK	1	PASI-A
		ASTM D2974-87	EJK	1	PASI-C

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SUMMARY OF DETECTION

Project: Buzzard Point, GW Rev3
Pace Project No.: 92246759

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92246759001	GSS-605-802-10-1					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	782	mg/kg	25.2	04/30/15 10:07	
EPA 8082	PCB-1242 (Aroclor 1242)	2360	ug/kg	208	04/30/15 05:19	
EPA 8082	PCB-1248 (Aroclor 1248)	2020	ug/kg	208	04/30/15 05:19	
EPA 6010	Aluminum	8420	mg/kg	159	04/29/15 21:28	
EPA 6010	Antimony	16.9	mg/kg	0.40	04/29/15 15:24	
EPA 6010	Arsenic	7.6	mg/kg	0.80	04/29/15 15:24	
EPA 6010	Barium	159	mg/kg	0.40	04/29/15 15:24	
EPA 6010	Beryllium	0.083	mg/kg	0.080	04/29/15 15:24	
EPA 6010	Cadmium	4.8	mg/kg	0.080	04/29/15 15:24	
EPA 6010	Calcium	72600	mg/kg	159	04/29/15 21:28	
EPA 6010	Chromium	47.7	mg/kg	0.40	04/29/15 15:24	
EPA 6010	Cobalt	11.2	mg/kg	0.40	04/29/15 15:24	
EPA 6010	Copper	662	mg/kg	0.40	04/29/15 15:24	
EPA 6010	Iron	37100	mg/kg	159	04/29/15 21:28	
EPA 6010	Lead	1740	mg/kg	8.0	04/29/15 21:28	
EPA 6010	Magnesium	4460	mg/kg	8.0	04/29/15 15:24	
EPA 6010	Manganese	348	mg/kg	0.40	04/29/15 15:24	
EPA 6010	Nickel	279	mg/kg	0.40	04/29/15 15:24	
EPA 6010	Potassium	1310	mg/kg	399	04/29/15 15:24	
EPA 6010	Silver	1.6	mg/kg	0.40	04/29/15 15:24	
EPA 6010	Sodium	585	mg/kg	399	04/29/15 15:24	
EPA 6010	Vanadium	890	mg/kg	8.0	04/29/15 21:28	
EPA 6010	Zinc	1560	mg/kg	15.9	04/29/15 21:28	
EPA 7471	Mercury	0.40	mg/kg	0.088	04/28/15 14:15	M6
ASTM D2974-87	Percent Moisture	20.6	%	0.10	04/27/15 14:40	
92246759002	GSS-605-802-12-1					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	173	mg/kg	6.2	04/30/15 00:34	
EPA 8082	PCB-1260 (Aroclor 1260)	27.0J	ug/kg	40.6	04/30/15 05:40	
EPA 6010	Aluminum	6530	mg/kg	11.0	04/29/15 15:27	
EPA 6010	Antimony	2.7	mg/kg	0.55	04/29/15 15:27	
EPA 6010	Arsenic	9.7	mg/kg	1.1	04/29/15 15:27	
EPA 6010	Barium	139	mg/kg	0.55	04/29/15 15:27	
EPA 6010	Beryllium	0.42	mg/kg	0.11	04/29/15 15:27	
EPA 6010	Cadmium	0.23	mg/kg	0.11	04/29/15 15:27	
EPA 6010	Calcium	31500	mg/kg	220	04/29/15 21:31	
EPA 6010	Chromium	17.5	mg/kg	0.55	04/29/15 15:27	
EPA 6010	Cobalt	5.8	mg/kg	0.55	04/29/15 15:27	
EPA 6010	Copper	55.1	mg/kg	0.55	04/29/15 15:27	
EPA 6010	Iron	15600	mg/kg	220	04/29/15 21:31	
EPA 6010	Lead	502	mg/kg	0.55	04/29/15 15:27	
EPA 6010	Magnesium	1950	mg/kg	11.0	04/29/15 15:27	
EPA 6010	Manganese	319	mg/kg	0.55	04/29/15 15:27	
EPA 6010	Nickel	8.8	mg/kg	0.55	04/29/15 15:27	
EPA 6010	Potassium	812	mg/kg	549	04/29/15 15:27	
EPA 6010	Silver	0.70	mg/kg	0.55	04/29/15 15:27	
EPA 6010	Vanadium	20.8	mg/kg	0.55	04/29/15 15:27	
EPA 6010	Zinc	212	mg/kg	1.1	04/29/15 15:27	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92246759002	GSS-605-802-12-1					
EPA 7471	Mercury	0.41	mg/kg	0.077	04/29/15 13:58	
ASTM D2974-87	Percent Moisture	18.7	%	0.10	04/27/15 14:40	
92246759003	DP-001-S0-100-01					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	240	mg/kg	5.8	04/30/15 00:58	
EPA 6010	Aluminum	4380	mg/kg	7.0	04/29/15 15:30	
EPA 6010	Antimony	7.8	mg/kg	0.35	04/29/15 15:30	
EPA 6010	Arsenic	6.5	mg/kg	0.70	04/29/15 15:30	
EPA 6010	Barium	242	mg/kg	0.35	04/29/15 15:30	
EPA 6010	Beryllium	0.22	mg/kg	0.070	04/29/15 15:30	
EPA 6010	Cadmium	0.69	mg/kg	0.070	04/29/15 15:30	
EPA 6010	Calcium	48600	mg/kg	141	04/29/15 21:34	
EPA 6010	Chromium	33.9	mg/kg	0.35	04/29/15 15:30	
EPA 6010	Cobalt	7.7	mg/kg	0.35	04/29/15 15:30	
EPA 6010	Copper	373	mg/kg	0.35	04/29/15 15:30	
EPA 6010	Iron	27300	mg/kg	141	04/29/15 21:34	
EPA 6010	Lead	1450	mg/kg	7.0	04/29/15 21:34	
EPA 6010	Magnesium	2300	mg/kg	7.0	04/29/15 15:30	
EPA 6010	Manganese	323	mg/kg	0.35	04/29/15 15:30	
EPA 6010	Nickel	119	mg/kg	0.35	04/29/15 15:30	
EPA 6010	Potassium	525	mg/kg	352	04/29/15 15:30	
EPA 6010	Silver	0.45	mg/kg	0.35	04/29/15 15:30	
EPA 6010	Sodium	231J	mg/kg	352	04/29/15 15:30	
EPA 6010	Vanadium	18.1	mg/kg	0.35	04/29/15 15:30	
EPA 6010	Zinc	470	mg/kg	0.70	04/29/15 15:30	
EPA 7471	Mercury	0.60	mg/kg	0.080	04/28/15 14:22	
EPA 8260	Acetone	66.3J	ug/kg	85.3	04/27/15 14:59	
EPA 8260	Methylene Chloride	3.7J	ug/kg	17.1	04/27/15 14:59	
ASTM D2974-87	Percent Moisture	14.3	%	0.10	04/27/15 14:40	
92246759004	DP-002-S0-100-01					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	356	mg/kg	6.0	04/30/15 00:58	
ASTM D2974-87	Percent Moisture	16.0	%	0.10	04/26/15 16:08	
92246759005	DP-002-S0-100-01					
EPA 8270	Acenaphthene	125J	ug/kg	388	05/01/15 11:15	
EPA 8270	Acenaphthylene	104J	ug/kg	388	05/01/15 11:15	
EPA 8270	Anthracene	463	ug/kg	388	05/01/15 11:15	
EPA 8270	Benzo(a)anthracene	1300	ug/kg	388	05/01/15 11:15	
EPA 8270	Benzo(a)pyrene	1240	ug/kg	388	05/01/15 11:15	
EPA 8270	Benzo(b)fluoranthene	1480	ug/kg	388	05/01/15 11:15	
EPA 8270	Benzo(g,h,i)perylene	833	ug/kg	388	05/01/15 11:15	
EPA 8270	Benzo(k)fluoranthene	600	ug/kg	388	05/01/15 11:15	
EPA 8270	Chrysene	1150	ug/kg	388	05/01/15 11:15	
EPA 8270	Fluoranthene	3010	ug/kg	388	05/01/15 11:15	
EPA 8270	Fluorene	127J	ug/kg	388	05/01/15 11:15	
EPA 8270	Indeno(1,2,3-cd)pyrene	718	ug/kg	388	05/01/15 11:15	
EPA 8270	Naphthalene	118J	ug/kg	388	05/01/15 11:15	
EPA 8270	Phenanthrene	1780	ug/kg	388	05/01/15 11:15	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92246759005	DP-002-S0-100-01					
EPA 8270	Pyrene	2010	ug/kg	388	05/01/15 11:15	
EPA 8260	Acetone	53.2J	ug/kg	117	04/24/15 19:58	
EPA 8260	Methylene Chloride	14.8J	ug/kg	23.5	04/24/15 19:58	
EPA 8260	Naphthalene	1.7J	ug/kg	5.9	04/24/15 19:58	
ASTM D2974-87	Percent Moisture	14.9	%	0.10	04/30/15 15:42	
92246759006	DP-002-S0-100-01					
EPA 6010	Aluminum	3990	mg/kg	9.5	04/29/15 15:33	
EPA 6010	Antimony	14.1	mg/kg	0.48	04/29/15 15:33	
EPA 6010	Arsenic	7.5	mg/kg	0.95	04/29/15 15:33	
EPA 6010	Barium	243	mg/kg	0.48	04/29/15 15:33	
EPA 6010	Beryllium	0.23	mg/kg	0.095	04/29/15 15:33	
EPA 6010	Cadmium	0.23	mg/kg	0.095	04/29/15 15:33	
EPA 6010	Calcium	34000	mg/kg	190	04/29/15 21:37	
EPA 6010	Chromium	29.9	mg/kg	0.48	04/29/15 15:33	
EPA 6010	Cobalt	7.2	mg/kg	0.48	04/29/15 15:33	
EPA 6010	Copper	329	mg/kg	0.48	04/29/15 15:33	
EPA 6010	Iron	26500	mg/kg	190	04/29/15 21:37	
EPA 6010	Lead	1690	mg/kg	9.5	04/29/15 21:37	
EPA 6010	Magnesium	1740	mg/kg	9.5	04/29/15 15:33	
EPA 6010	Manganese	320	mg/kg	0.48	04/29/15 15:33	
EPA 6010	Nickel	13.0	mg/kg	0.48	04/29/15 15:33	
EPA 6010	Potassium	535	mg/kg	476	04/29/15 15:33	
EPA 6010	Silver	0.44J	mg/kg	0.48	04/29/15 15:33	
EPA 6010	Vanadium	19.0	mg/kg	0.48	04/29/15 15:33	
EPA 6010	Zinc	418	mg/kg	0.95	04/29/15 15:33	
EPA 7471	Mercury	1.6	mg/kg	0.082	04/28/15 14:25	
ASTM D2974-87	Percent Moisture	16.7	%	0.10	05/01/15 15:31	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Sample: GSS-605-802-10-1 **Lab ID: 92246759001** Collected: 04/21/15 12:36 Received: 04/23/15 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	782	mg/kg	25.2	22.7	4	04/29/15 10:05	04/30/15 10:07		
Surrogates									
n-Pentacosane (S)	214	%	41-119		4	04/29/15 10:05	04/30/15 10:07	629-99-2	S5
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	208	94.4	5	04/27/15 09:21	04/30/15 05:19	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	208	94.4	5	04/27/15 09:21	04/30/15 05:19	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	208	94.4	5	04/27/15 09:21	04/30/15 05:19	11141-16-5	
PCB-1242 (Aroclor 1242)	2360	ug/kg	208	94.4	5	04/27/15 09:21	04/30/15 05:19	53469-21-9	
PCB-1248 (Aroclor 1248)	2020	ug/kg	208	94.4	5	04/27/15 09:21	04/30/15 05:19	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	208	94.4	5	04/27/15 09:21	04/30/15 05:19	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	208	94.4	5	04/27/15 09:21	04/30/15 05:19	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	0	%	21-132		5	04/27/15 09:21	04/30/15 05:19	2051-24-3	S4
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	7.6	7.6	1	04/28/15 16:43	05/01/15 09:28		
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-167		1	04/28/15 16:43	05/01/15 09:28	460-00-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	8420	mg/kg	159	79.7	20	04/28/15 16:00	04/29/15 21:28	7429-90-5	
Antimony	16.9	mg/kg	0.40	0.31	1	04/28/15 16:00	04/29/15 15:24	7440-36-0	
Arsenic	7.6	mg/kg	0.80	0.40	1	04/28/15 16:00	04/29/15 15:24	7440-38-2	
Barium	159	mg/kg	0.40	0.20	1	04/28/15 16:00	04/29/15 15:24	7440-39-3	
Beryllium	0.083	mg/kg	0.080	0.040	1	04/28/15 16:00	04/29/15 15:24	7440-41-7	
Cadmium	4.8	mg/kg	0.080	0.040	1	04/28/15 16:00	04/29/15 15:24	7440-43-9	
Calcium	72600	mg/kg	159	79.7	20	04/28/15 16:00	04/29/15 21:28	7440-70-2	
Chromium	47.7	mg/kg	0.40	0.20	1	04/28/15 16:00	04/29/15 15:24	7440-47-3	
Cobalt	11.2	mg/kg	0.40	0.20	1	04/28/15 16:00	04/29/15 15:24	7440-48-4	
Copper	662	mg/kg	0.40	0.20	1	04/28/15 16:00	04/29/15 15:24	7440-50-8	
Iron	37100	mg/kg	159	79.7	20	04/28/15 16:00	04/29/15 21:28	7439-89-6	
Lead	1740	mg/kg	8.0	4.0	20	04/28/15 16:00	04/29/15 21:28	7439-92-1	
Magnesium	4460	mg/kg	8.0	0.20	1	04/28/15 16:00	04/29/15 15:24	7439-95-4	
Manganese	348	mg/kg	0.40	0.20	1	04/28/15 16:00	04/29/15 15:24	7439-96-5	
Nickel	279	mg/kg	0.40	0.20	1	04/28/15 16:00	04/29/15 15:24	7440-02-0	
Potassium	1310	mg/kg	399	399	1	04/28/15 16:00	04/29/15 15:24	7440-09-7	
Selenium	ND	mg/kg	0.80	0.40	1	04/28/15 16:00	04/29/15 15:24	7782-49-2	
Silver	1.6	mg/kg	0.40	0.20	1	04/28/15 16:00	04/29/15 15:24	7440-22-4	
Sodium	585	mg/kg	399	199	1	04/28/15 16:00	04/29/15 15:24	7440-23-5	
Thallium	ND	mg/kg	0.80	0.40	1	04/28/15 16:00	04/29/15 15:24	7440-28-0	
Vanadium	890	mg/kg	8.0	4.0	20	04/28/15 16:00	04/29/15 21:28	7440-62-2	
Zinc	1560	mg/kg	15.9	8.0	20	04/28/15 16:00	04/29/15 21:28	7440-66-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Sample: GSS-605-802-10-1 **Lab ID: 92246759001** Collected: 04/21/15 12:36 Received: 04/23/15 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.40	mg/kg	0.088	0.0018	20	04/25/15 16:35	04/28/15 14:15	7439-97-6	M6
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	20.6	%	0.10	0.10	1	04/27/15 14:40			

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ANALYTICAL RESULTS

Project: Buzzard Point, GW Rev3
Pace Project No.: 92246759

Sample: **GSS-605-802-12-1** Lab ID: **92246759002** Collected: 04/22/15 16:00 Received: 04/23/15 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	173	mg/kg	6.2	5.5	1	04/29/15 10:05	04/30/15 00:34		
Surrogates									
n-Pentacosane (S)	122	%	41-119		1	04/29/15 10:05	04/30/15 00:34	629-99-2	S5
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.6	18.5	1	04/27/15 09:21	04/30/15 05:40	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.6	18.5	1	04/27/15 09:21	04/30/15 05:40	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.6	18.5	1	04/27/15 09:21	04/30/15 05:40	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.6	18.5	1	04/27/15 09:21	04/30/15 05:40	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.6	18.5	1	04/27/15 09:21	04/30/15 05:40	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	40.6	18.5	1	04/27/15 09:21	04/30/15 05:40	11097-69-1	
PCB-1260 (Aroclor 1260)	27.0J	ug/kg	40.6	18.5	1	04/27/15 09:21	04/30/15 05:40	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	92	%	21-132		1	04/27/15 09:21	04/30/15 05:40	2051-24-3	
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	7.3	7.3	1	04/28/15 16:43	05/01/15 09:55		
Surrogates									
4-Bromofluorobenzene (S)	110	%	70-167		1	04/28/15 16:43	05/01/15 09:55	460-00-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	6530	mg/kg	11.0	5.5	1	04/28/15 16:00	04/29/15 15:27	7429-90-5	
Antimony	2.7	mg/kg	0.55	0.43	1	04/28/15 16:00	04/29/15 15:27	7440-36-0	
Arsenic	9.7	mg/kg	1.1	0.55	1	04/28/15 16:00	04/29/15 15:27	7440-38-2	
Barium	139	mg/kg	0.55	0.27	1	04/28/15 16:00	04/29/15 15:27	7440-39-3	
Beryllium	0.42	mg/kg	0.11	0.055	1	04/28/15 16:00	04/29/15 15:27	7440-41-7	
Cadmium	0.23	mg/kg	0.11	0.055	1	04/28/15 16:00	04/29/15 15:27	7440-43-9	
Calcium	31500	mg/kg	220	110	20	04/28/15 16:00	04/29/15 21:31	7440-70-2	
Chromium	17.5	mg/kg	0.55	0.27	1	04/28/15 16:00	04/29/15 15:27	7440-47-3	
Cobalt	5.8	mg/kg	0.55	0.27	1	04/28/15 16:00	04/29/15 15:27	7440-48-4	
Copper	55.1	mg/kg	0.55	0.27	1	04/28/15 16:00	04/29/15 15:27	7440-50-8	
Iron	15600	mg/kg	220	110	20	04/28/15 16:00	04/29/15 21:31	7439-89-6	
Lead	502	mg/kg	0.55	0.27	1	04/28/15 16:00	04/29/15 15:27	7439-92-1	
Magnesium	1950	mg/kg	11.0	0.27	1	04/28/15 16:00	04/29/15 15:27	7439-95-4	
Manganese	319	mg/kg	0.55	0.27	1	04/28/15 16:00	04/29/15 15:27	7439-96-5	
Nickel	8.8	mg/kg	0.55	0.27	1	04/28/15 16:00	04/29/15 15:27	7440-02-0	
Potassium	812	mg/kg	549	549	1	04/28/15 16:00	04/29/15 15:27	7440-09-7	
Selenium	ND	mg/kg	1.1	0.55	1	04/28/15 16:00	04/29/15 15:27	7782-49-2	
Silver	0.70	mg/kg	0.55	0.27	1	04/28/15 16:00	04/29/15 15:27	7440-22-4	
Sodium	ND	mg/kg	549	275	1	04/28/15 16:00	04/29/15 15:27	7440-23-5	
Thallium	ND	mg/kg	1.1	0.55	1	04/28/15 16:00	04/29/15 15:27	7440-28-0	
Vanadium	20.8	mg/kg	0.55	0.27	1	04/28/15 16:00	04/29/15 15:27	7440-62-2	
Zinc	212	mg/kg	1.1	0.55	1	04/28/15 16:00	04/29/15 15:27	7440-66-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Sample: GSS-605-802-12-1 **Lab ID: 92246759002** Collected: 04/22/15 16:00 Received: 04/23/15 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.41	mg/kg	0.077	0.0015	20	04/29/15 11:40	04/29/15 13:58	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	18.7	%	0.10	0.10	1		04/27/15 14:40		

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ANALYTICAL RESULTS

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Sample: DP-001-S0-100-01 **Lab ID: 92246759003** Collected: 04/22/15 13:30 Received: 04/23/15 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	240	mg/kg	5.8	5.3	1	04/29/15 10:05	04/30/15 00:58		
Surrogates									
n-Pentacosane (S)	122	%	41-119		1	04/29/15 10:05	04/30/15 00:58	629-99-2	S5
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	7.0	7.0	1	04/28/15 16:43	05/04/15 13:27		
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-167		1	04/28/15 16:43	05/04/15 13:27	460-00-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	4380	mg/kg	7.0	3.5	1	04/28/15 16:00	04/29/15 15:30	7429-90-5	
Antimony	7.8	mg/kg	0.35	0.27	1	04/28/15 16:00	04/29/15 15:30	7440-36-0	
Arsenic	6.5	mg/kg	0.70	0.35	1	04/28/15 16:00	04/29/15 15:30	7440-38-2	
Barium	242	mg/kg	0.35	0.18	1	04/28/15 16:00	04/29/15 15:30	7440-39-3	
Beryllium	0.22	mg/kg	0.070	0.035	1	04/28/15 16:00	04/29/15 15:30	7440-41-7	
Cadmium	0.69	mg/kg	0.070	0.035	1	04/28/15 16:00	04/29/15 15:30	7440-43-9	
Calcium	48600	mg/kg	141	70.3	20	04/28/15 16:00	04/29/15 21:34	7440-70-2	
Chromium	33.9	mg/kg	0.35	0.18	1	04/28/15 16:00	04/29/15 15:30	7440-47-3	
Cobalt	7.7	mg/kg	0.35	0.18	1	04/28/15 16:00	04/29/15 15:30	7440-48-4	
Copper	373	mg/kg	0.35	0.18	1	04/28/15 16:00	04/29/15 15:30	7440-50-8	
Iron	27300	mg/kg	141	70.3	20	04/28/15 16:00	04/29/15 21:34	7439-89-6	
Lead	1450	mg/kg	7.0	3.5	20	04/28/15 16:00	04/29/15 21:34	7439-92-1	
Magnesium	2300	mg/kg	7.0	0.18	1	04/28/15 16:00	04/29/15 15:30	7439-95-4	
Manganese	323	mg/kg	0.35	0.18	1	04/28/15 16:00	04/29/15 15:30	7439-96-5	
Nickel	119	mg/kg	0.35	0.18	1	04/28/15 16:00	04/29/15 15:30	7440-02-0	
Potassium	525	mg/kg	352	352	1	04/28/15 16:00	04/29/15 15:30	7440-09-7	
Selenium	ND	mg/kg	0.70	0.35	1	04/28/15 16:00	04/29/15 15:30	7782-49-2	
Silver	0.45	mg/kg	0.35	0.18	1	04/28/15 16:00	04/29/15 15:30	7440-22-4	
Sodium	231J	mg/kg	352	176	1	04/28/15 16:00	04/29/15 15:30	7440-23-5	
Thallium	ND	mg/kg	0.70	0.35	1	04/28/15 16:00	04/29/15 15:30	7440-28-0	
Vanadium	18.1	mg/kg	0.35	0.18	1	04/28/15 16:00	04/29/15 15:30	7440-62-2	
Zinc	470	mg/kg	0.70	0.35	1	04/28/15 16:00	04/29/15 15:30	7440-66-6	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.60	mg/kg	0.080	0.0016	20	04/25/15 16:35	04/28/15 14:22	7439-97-6	
8260/5035A Volatile Organics									
Analytical Method: EPA 8260									
Acetone	66.3J	ug/kg	85.3	8.5	1		04/27/15 14:59	67-64-1	
Benzene	ND	ug/kg	4.3	1.4	1		04/27/15 14:59	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1.7	1		04/27/15 14:59	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1.6	1		04/27/15 14:59	75-27-4	
Bromoform	ND	ug/kg	4.3	2.0	1		04/27/15 14:59	75-25-2	
Bromomethane	ND	ug/kg	8.5	2.1	1		04/27/15 14:59	74-83-9	

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ANALYTICAL RESULTS

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Sample: DP-001-S0-100-01 **Lab ID:** 92246759003 Collected: 04/22/15 13:30 Received: 04/23/15 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/kg	85.3	2.5	1		04/27/15 14:59	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1.4	1		04/27/15 14:59	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1.7	1		04/27/15 14:59	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	2.2	1		04/27/15 14:59	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1.6	1		04/27/15 14:59	108-90-7	
Chloroethane	ND	ug/kg	8.5	2.0	1		04/27/15 14:59	75-00-3	
Chloroform	ND	ug/kg	4.3	1.4	1		04/27/15 14:59	67-66-3	
Chloromethane	ND	ug/kg	8.5	2.0	1		04/27/15 14:59	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	3.1	1		04/27/15 14:59	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	106-93-4	
Dibromomethane	ND	ug/kg	4.3	2.1	1		04/27/15 14:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1.6	1		04/27/15 14:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1.7	1		04/27/15 14:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.5	3.1	1		04/27/15 14:59	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1.3	1		04/27/15 14:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1.9	1		04/27/15 14:59	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1.2	1		04/27/15 14:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1.6	1		04/27/15 14:59	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1.6	1		04/27/15 14:59	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1.3	1		04/27/15 14:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1.3	1		04/27/15 14:59	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1.7	1		04/27/15 14:59	87-68-3	
2-Hexanone	ND	ug/kg	42.7	3.3	1		04/27/15 14:59	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1.6	1		04/27/15 14:59	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	99-87-6	
Methylene Chloride	3.7J	ug/kg	17.1	2.6	1		04/27/15 14:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	42.7	3.2	1		04/27/15 14:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1.3	1		04/27/15 14:59	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1.0	1		04/27/15 14:59	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	103-65-1	
Styrene	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1.8	1		04/27/15 14:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1.6	1		04/27/15 14:59	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	127-18-4	

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ANALYTICAL RESULTS

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Sample: DP-001-S0-100-01 **Lab ID: 92246759003** Collected: 04/22/15 13:30 Received: 04/23/15 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Toluene	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1.9	1		04/27/15 14:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1.4	1		04/27/15 14:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1.8	1		04/27/15 14:59	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1.8	1		04/27/15 14:59	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1.9	1		04/27/15 14:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1.4	1		04/27/15 14:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1.7	1		04/27/15 14:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1.5	1		04/27/15 14:59	108-67-8	
Vinyl acetate	ND	ug/kg	42.7	7.5	1		04/27/15 14:59	108-05-4	L3
Vinyl chloride	ND	ug/kg	8.5	1.5	1		04/27/15 14:59	75-01-4	
Xylene (Total)	ND	ug/kg	8.5	3.1	1		04/27/15 14:59	1330-20-7	
m&p-Xylene	ND	ug/kg	8.5	3.1	1		04/27/15 14:59	179601-23-1	
o-Xylene	ND	ug/kg	4.3	1.6	1		04/27/15 14:59	95-47-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		04/27/15 14:59	2037-26-5	1g
4-Bromofluorobenzene (S)	86	%	70-130		1		04/27/15 14:59	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-132		1		04/27/15 14:59	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.3	%	0.10	0.10	1		04/27/15 14:40		

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ANALYTICAL RESULTS

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Sample: DP-002-S0-100-01 **Lab ID: 92246759004** Collected: 04/22/15 12:57 Received: 04/23/15 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	356	mg/kg	6.0	5.4	1	04/29/15 10:05	04/30/15 00:58		
Surrogates									
n-Pentacosane (S)	132	%	41-119		1	04/29/15 10:05	04/30/15 00:58	629-99-2	S5
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	7.1	7.1	1	04/28/15 16:43	05/04/15 13:53		
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-167		1	04/28/15 16:43	05/04/15 13:53	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.0	%	0.10	0.10	1		04/26/15 16:08		

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ANALYTICAL RESULTS

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Sample: DP-002-S0-100-01 Lab ID: 92246759005 Collected: 04/22/15 12:57 Received: 04/23/15 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH Microwave Analytical Method: EPA 8270 Preparation Method: EPA 3546									
Acenaphthene	125J	ug/kg	388	89.3	1	04/29/15 13:20	05/01/15 11:15	83-32-9	
Acenaphthylene	104J	ug/kg	388	91.6	1	04/29/15 13:20	05/01/15 11:15	208-96-8	
Anthracene	463	ug/kg	388	86.9	1	04/29/15 13:20	05/01/15 11:15	120-12-7	
Benzo(a)anthracene	1300	ug/kg	388	71.7	1	04/29/15 13:20	05/01/15 11:15	56-55-3	
Benzo(a)pyrene	1240	ug/kg	388	74.0	1	04/29/15 13:20	05/01/15 11:15	50-32-8	
Benzo(b)fluoranthene	1480	ug/kg	388	67.0	1	04/29/15 13:20	05/01/15 11:15	205-99-2	
Benzo(g,h,i)perylene	833	ug/kg	388	98.7	1	04/29/15 13:20	05/01/15 11:15	191-24-2	
Benzo(k)fluoranthene	600	ug/kg	388	76.4	1	04/29/15 13:20	05/01/15 11:15	207-08-9	
Chrysene	1150	ug/kg	388	51.7	1	04/29/15 13:20	05/01/15 11:15	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	388	82.2	1	04/29/15 13:20	05/01/15 11:15	53-70-3	
Fluoranthene	3010	ug/kg	388	56.4	1	04/29/15 13:20	05/01/15 11:15	206-44-0	
Fluorene	127J	ug/kg	388	79.9	1	04/29/15 13:20	05/01/15 11:15	86-73-7	
Indeno(1,2,3-cd)pyrene	718	ug/kg	388	79.9	1	04/29/15 13:20	05/01/15 11:15	193-39-5	
1-Methylnaphthalene	ND	ug/kg	388	101	1	04/29/15 13:20	05/01/15 11:15	90-12-0	
2-Methylnaphthalene	ND	ug/kg	388	83.4	1	04/29/15 13:20	05/01/15 11:15	91-57-6	
Naphthalene	118J	ug/kg	388	95.2	1	04/29/15 13:20	05/01/15 11:15	91-20-3	
Phenanthrene	1780	ug/kg	388	64.6	1	04/29/15 13:20	05/01/15 11:15	85-01-8	
Pyrene	2010	ug/kg	388	65.8	1	04/29/15 13:20	05/01/15 11:15	129-00-0	
Surrogates									
Nitrobenzene-d5 (S)	50	%	23-110		1	04/29/15 13:20	05/01/15 11:15	4165-60-0	
2-Fluorobiphenyl (S)	36	%	30-110		1	04/29/15 13:20	05/01/15 11:15	321-60-8	
Terphenyl-d14 (S)	46	%	28-110		1	04/29/15 13:20	05/01/15 11:15	1718-51-0	
8260/5035A Volatile Organics Analytical Method: EPA 8260									
Acetone	53.2J	ug/kg	117	11.7	1		04/24/15 19:58	67-64-1	
Benzene	ND	ug/kg	5.9	1.9	1		04/24/15 19:58	71-43-2	
Bromobenzene	ND	ug/kg	5.9	2.3	1		04/24/15 19:58	108-86-1	
Bromochloromethane	ND	ug/kg	5.9	2.0	1		04/24/15 19:58	74-97-5	
Bromodichloromethane	ND	ug/kg	5.9	2.2	1		04/24/15 19:58	75-27-4	
Bromoform	ND	ug/kg	5.9	2.7	1		04/24/15 19:58	75-25-2	
Bromomethane	ND	ug/kg	11.7	2.9	1		04/24/15 19:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	117	3.4	1		04/24/15 19:58	78-93-3	
n-Butylbenzene	ND	ug/kg	5.9	2.1	1		04/24/15 19:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.9	1.9	1		04/24/15 19:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.9	2.3	1		04/24/15 19:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.9	3.1	1		04/24/15 19:58	56-23-5	
Chlorobenzene	ND	ug/kg	5.9	2.2	1		04/24/15 19:58	108-90-7	
Chloroethane	ND	ug/kg	11.7	2.8	1		04/24/15 19:58	75-00-3	
Chloroform	ND	ug/kg	5.9	1.9	1		04/24/15 19:58	67-66-3	
Chloromethane	ND	ug/kg	11.7	2.8	1		04/24/15 19:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.9	2.0	1		04/24/15 19:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.9	2.1	1		04/24/15 19:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.9	4.2	1		04/24/15 19:58	96-12-8	
Dibromochloromethane	ND	ug/kg	5.9	2.1	1		04/24/15 19:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.9	2.1	1		04/24/15 19:58	106-93-4	

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ANALYTICAL RESULTS

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Sample: DP-002-S0-100-01 Lab ID: **92246759005** Collected: 04/22/15 12:57 Received: 04/23/15 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Dibromomethane	ND	ug/kg	5.9	2.9	1		04/24/15 19:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.9	2.2	1		04/24/15 19:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.9	2.3	1		04/24/15 19:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.9	2.0	1		04/24/15 19:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.7	4.2	1		04/24/15 19:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.9	1.8	1		04/24/15 19:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.9	2.6	1		04/24/15 19:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.9	2.1	1		04/24/15 19:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.9	1.6	1		04/24/15 19:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.9	2.2	1		04/24/15 19:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.9	2.0	1		04/24/15 19:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.9	2.2	1		04/24/15 19:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.9	2.0	1		04/24/15 19:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.9	1.8	1		04/24/15 19:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.9	2.1	1		04/24/15 19:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.9	1.8	1		04/24/15 19:58	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.9	2.0	1		04/24/15 19:58	108-20-3	
Ethylbenzene	ND	ug/kg	5.9	2.1	1		04/24/15 19:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.9	2.3	1		04/24/15 19:58	87-68-3	
2-Hexanone	ND	ug/kg	58.7	4.6	1		04/24/15 19:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.9	2.2	1		04/24/15 19:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.9	2.0	1		04/24/15 19:58	99-87-6	
Methylene Chloride	14.8J	ug/kg	23.5	3.5	1		04/24/15 19:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	58.7	4.3	1		04/24/15 19:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.9	1.8	1		04/24/15 19:58	1634-04-4	
Naphthalene	1.7J	ug/kg	5.9	1.4	1		04/24/15 19:58	91-20-3	
n-Propylbenzene	ND	ug/kg	5.9	2.0	1		04/24/15 19:58	103-65-1	
Styrene	ND	ug/kg	5.9	2.1	1		04/24/15 19:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.9	2.5	1		04/24/15 19:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.9	2.2	1		04/24/15 19:58	79-34-5	
Tetrachloroethene	ND	ug/kg	5.9	2.0	1		04/24/15 19:58	127-18-4	
Toluene	ND	ug/kg	5.9	2.1	1		04/24/15 19:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.9	2.6	1		04/24/15 19:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.9	1.9	1		04/24/15 19:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.9	2.1	1		04/24/15 19:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.9	2.5	1		04/24/15 19:58	79-00-5	
Trichloroethene	ND	ug/kg	5.9	2.5	1		04/24/15 19:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.9	2.6	1		04/24/15 19:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.9	1.9	1		04/24/15 19:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.9	2.3	1		04/24/15 19:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.9	2.1	1		04/24/15 19:58	108-67-8	
Vinyl acetate	ND	ug/kg	58.7	10.3	1		04/24/15 19:58	108-05-4	L3
Vinyl chloride	ND	ug/kg	11.7	2.1	1		04/24/15 19:58	75-01-4	
Xylene (Total)	ND	ug/kg	11.7	4.2	1		04/24/15 19:58	1330-20-7	
m&p-Xylene	ND	ug/kg	11.7	4.2	1		04/24/15 19:58	179601-23-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Sample: DP-002-S0-100-01 **Lab ID: 92246759005** Collected: 04/22/15 12:57 Received: 04/23/15 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
o-Xylene	ND	ug/kg	5.9	2.2	1		04/24/15 19:58	95-47-6	
Surrogates									
Toluene-d8 (S)	92	%	70-130		1		04/24/15 19:58	2037-26-5	1g,2g
4-Bromofluorobenzene (S)	74	%	70-130		1		04/24/15 19:58	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-132		1		04/24/15 19:58	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.9	%	0.10	0.10	1		04/30/15 15:42		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Sample: DP-002-S0-100-01 **Lab ID: 92246759006** Collected: 04/22/15 12:57 Received: 04/23/15 09:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Aluminum	3990	mg/kg	9.5	4.8	1	04/28/15 16:00	04/29/15 15:33	7429-90-5	
Antimony	14.1	mg/kg	0.48	0.37	1	04/28/15 16:00	04/29/15 15:33	7440-36-0	
Arsenic	7.5	mg/kg	0.95	0.48	1	04/28/15 16:00	04/29/15 15:33	7440-38-2	
Barium	243	mg/kg	0.48	0.24	1	04/28/15 16:00	04/29/15 15:33	7440-39-3	
Beryllium	0.23	mg/kg	0.095	0.048	1	04/28/15 16:00	04/29/15 15:33	7440-41-7	
Cadmium	0.23	mg/kg	0.095	0.048	1	04/28/15 16:00	04/29/15 15:33	7440-43-9	
Calcium	34000	mg/kg	190	95.2	20	04/28/15 16:00	04/29/15 21:37	7440-70-2	
Chromium	29.9	mg/kg	0.48	0.24	1	04/28/15 16:00	04/29/15 15:33	7440-47-3	
Cobalt	7.2	mg/kg	0.48	0.24	1	04/28/15 16:00	04/29/15 15:33	7440-48-4	
Copper	329	mg/kg	0.48	0.24	1	04/28/15 16:00	04/29/15 15:33	7440-50-8	
Iron	26500	mg/kg	190	95.2	20	04/28/15 16:00	04/29/15 21:37	7439-89-6	
Lead	1690	mg/kg	9.5	4.8	20	04/28/15 16:00	04/29/15 21:37	7439-92-1	
Magnesium	1740	mg/kg	9.5	0.24	1	04/28/15 16:00	04/29/15 15:33	7439-95-4	
Manganese	320	mg/kg	0.48	0.24	1	04/28/15 16:00	04/29/15 15:33	7439-96-5	
Nickel	13.0	mg/kg	0.48	0.24	1	04/28/15 16:00	04/29/15 15:33	7440-02-0	
Potassium	535	mg/kg	476	476	1	04/28/15 16:00	04/29/15 15:33	7440-09-7	
Selenium	ND	mg/kg	0.95	0.48	1	04/28/15 16:00	04/29/15 15:33	7782-49-2	
Silver	0.44J	mg/kg	0.48	0.24	1	04/28/15 16:00	04/29/15 15:33	7440-22-4	
Sodium	ND	mg/kg	476	238	1	04/28/15 16:00	04/29/15 15:33	7440-23-5	
Thallium	ND	mg/kg	0.95	0.48	1	04/28/15 16:00	04/29/15 15:33	7440-28-0	
Vanadium	19.0	mg/kg	0.48	0.24	1	04/28/15 16:00	04/29/15 15:33	7440-62-2	
Zinc	418	mg/kg	0.95	0.48	1	04/28/15 16:00	04/29/15 15:33	7440-66-6	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	1.6	mg/kg	0.082	0.0016	20	04/25/15 16:35	04/28/15 14:25	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	16.7	%	0.10	0.10	1		05/01/15 15:31		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

QC Batch: GCV/9275 Analysis Method: EPA 8015 Modified
 QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
 Associated Lab Samples: 92246759001, 92246759002, 92246759003, 92246759004

METHOD BLANK: 1445408 Matrix: Solid
 Associated Lab Samples: 92246759001, 92246759002, 92246759003, 92246759004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	05/01/15 05:32	
4-Bromofluorobenzene (S)	%	108	70-167	05/01/15 05:32	

LABORATORY CONTROL SAMPLE: 1445409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	50	51.8	104	70-165	
4-Bromofluorobenzene (S)	%			110	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1445692 1445693

Parameter	Units	92246829005		1445692		1445693		% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Gas Range Organics (C6-C10)	mg/kg	ND	59.4	59.4	17.2	35.1	28	58	47-187	68	30	M0,R1
4-Bromofluorobenzene (S)	%						100	95	70-167			

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3
Pace Project No.: 92246759

QC Batch: MERP/7774 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 92246759001, 92246759003, 92246759006

METHOD BLANK: 1443652 Matrix: Solid
Associated Lab Samples: 92246759001, 92246759003, 92246759006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	0.0021J	0.0050	04/28/15 13:06	

LABORATORY CONTROL SAMPLE: 1443653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.070	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1443654 1443655

Parameter	Units	92246759001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Mercury	mg/kg	0.40	.067	.059	0.61	0.52	318	214	75-125	15	20	M6	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

QC Batch:	MERP/7782	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	92246759002		

METHOD BLANK: 1445816 Matrix: Solid

Associated Lab Samples: 92246759002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	0.0013J	0.0050	04/29/15 13:53	

LABORATORY CONTROL SAMPLE: 1445817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.067	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1445818 1445819

Parameter	Units	92247219004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Spike Conc.	Conc.						
Mercury	mg/kg	ND	.062	.062	.061	.062	97	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

QC Batch: MPRP/18359 Analysis Method: EPA 6010
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET
 Associated Lab Samples: 92246759001, 92246759002, 92246759003, 92246759006

METHOD BLANK: 1444919 Matrix: Solid
 Associated Lab Samples: 92246759001, 92246759002, 92246759003, 92246759006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	ND	10.0	04/29/15 16:46	
Antimony	mg/kg	ND	0.50	04/29/15 16:46	
Arsenic	mg/kg	ND	1.0	04/29/15 16:46	
Barium	mg/kg	ND	0.50	04/29/15 16:46	
Beryllium	mg/kg	ND	0.10	04/29/15 16:46	
Cadmium	mg/kg	ND	0.10	04/29/15 16:46	
Calcium	mg/kg	ND	10.0	04/29/15 16:46	
Chromium	mg/kg	ND	0.50	04/29/15 16:46	
Cobalt	mg/kg	ND	0.50	04/29/15 16:46	
Copper	mg/kg	ND	0.50	04/29/15 16:46	
Iron	mg/kg	ND	10.0	04/29/15 16:46	
Lead	mg/kg	ND	0.50	04/29/15 16:46	
Magnesium	mg/kg	0.45J	10.0	04/29/15 16:46	
Manganese	mg/kg	0.31J	0.50	04/29/15 16:46	
Nickel	mg/kg	ND	0.50	04/29/15 16:46	
Potassium	mg/kg	ND	500	04/29/15 16:46	
Selenium	mg/kg	ND	1.0	04/29/15 16:46	
Silver	mg/kg	ND	0.50	04/29/15 16:46	
Sodium	mg/kg	ND	500	04/29/15 16:46	
Thallium	mg/kg	ND	1.0	04/29/15 16:46	
Vanadium	mg/kg	ND	0.50	04/29/15 16:46	
Zinc	mg/kg	ND	1.0	04/29/15 16:46	

LABORATORY CONTROL SAMPLE: 1444920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	500	466	93	80-120	
Antimony	mg/kg	50	48.8	98	80-120	
Arsenic	mg/kg	50	46.4	93	80-120	
Barium	mg/kg	50	46.7	93	80-120	
Beryllium	mg/kg	50	46.3	93	80-120	
Cadmium	mg/kg	50	47.3	95	80-120	
Calcium	mg/kg	500	456	91	80-120	
Chromium	mg/kg	50	46.1	92	80-120	
Cobalt	mg/kg	50	47.2	94	80-120	
Copper	mg/kg	50	47.7	95	80-120	
Iron	mg/kg	500	463	93	80-120	
Lead	mg/kg	50	47.0	94	80-120	
Magnesium	mg/kg	500	456	91	80-120	
Manganese	mg/kg	50	45.5	91	80-120	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

LABORATORY CONTROL SAMPLE: 1444920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nickel	mg/kg	50	46.3	93	80-120	
Potassium	mg/kg	500	ND	94	80-120	
Selenium	mg/kg	50	47.2	94	80-120	
Silver	mg/kg	25	23.5	94	80-120	
Sodium	mg/kg	500	467J	93	80-120	
Thallium	mg/kg	50	46.5	93	80-120	
Vanadium	mg/kg	50	46.0	92	80-120	
Zinc	mg/kg	50	45.9	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1444921 1444922

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92246736001 Result	Spike Conc.	Spike Conc.	MS Result								
Aluminum	mg/kg	3910	269	253	5120	2910	452	-396	75-125	55	20	M1,R1	
Antimony	mg/kg	ND	26.9	25.3	14.0	12.9	51	50	75-125	8	20	M1	
Arsenic	mg/kg	25.8	26.9	25.3	40.2	36.0	54	40	75-125	11	20	M1	
Barium	mg/kg	89.4	26.9	25.3	377	45.3	1068	-175	75-125	157	20	M1,R1	
Beryllium	mg/kg	0.89	26.9	25.3	24.0	22.6	86	86	75-125	6	20		
Cadmium	mg/kg	0.11	26.9	25.3	24.1	22.8	89	90	75-125	6	20		
Calcium	mg/kg	2060	269	253	1910	1250	-59	-323	75-125	42	20	M1,R1	
Chromium	mg/kg	2.3	26.9	25.3	26.5	23.6	90	84	75-125	11	20		
Cobalt	mg/kg	0.62	26.9	25.3	33.5	22.9	122	88	75-125	38	20	R1	
Copper	mg/kg	5.5	26.9	25.3	35.6	28.1	112	89	75-125	24	20	R1	
Iron	mg/kg	5160	269	253	4720	3100	-161	-816	75-125	42	20	M1,R1	
Lead	mg/kg	5.3	26.9	25.3	28.8	26.2	87	83	75-125	10	20		
Magnesium	mg/kg	833	269	253	1040	706	77	-50	75-125	38	20	M1,R1	
Manganese	mg/kg	17.5	26.9	25.3	1170	31.1	4305	54	75-125	190	20	M1,R1	
Nickel	mg/kg	3.3	26.9	25.3	29.4	23.9	97	81	75-125	21	20	R1	
Potassium	mg/kg	943	269	253	1150	775	78	-67	75-125	39	20	M1,R1	
Selenium	mg/kg	ND	26.9	25.3	22.9	22.2	85	88	75-125	3	20		
Silver	mg/kg	ND	13.4	12.6	12.0	11.3	89	90	75-125	6	20		
Sodium	mg/kg	720	269	253	903	646	68	-29	75-125	33	20	M1,R1	
Thallium	mg/kg	ND	26.9	25.3	21.6	20.7	80	82	75-125	4	20		
Vanadium	mg/kg	8.5	26.9	25.3	43.6	28.9	130	81	75-125	41	20	M1,R1	
Zinc	mg/kg	17.7	26.9	25.3	46.0	33.9	105	64	75-125	30	20	M1,R1	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3
Pace Project No.: 92246759

QC Batch: MSV/31363 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92246759005

METHOD BLANK: 1442936 Matrix: Solid
Associated Lab Samples: 92246759005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.8	04/24/15 16:19	
1,1,1-Trichloroethane	ug/kg	ND	4.8	04/24/15 16:19	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.8	04/24/15 16:19	
1,1,2-Trichloroethane	ug/kg	ND	4.8	04/24/15 16:19	
1,1-Dichloroethane	ug/kg	ND	4.8	04/24/15 16:19	
1,1-Dichloroethene	ug/kg	ND	4.8	04/24/15 16:19	
1,1-Dichloropropene	ug/kg	ND	4.8	04/24/15 16:19	
1,2,3-Trichlorobenzene	ug/kg	ND	4.8	04/24/15 16:19	
1,2,3-Trichloropropane	ug/kg	ND	4.8	04/24/15 16:19	
1,2,4-Trichlorobenzene	ug/kg	ND	4.8	04/24/15 16:19	
1,2,4-Trimethylbenzene	ug/kg	ND	4.8	04/24/15 16:19	
1,2-Dibromo-3-chloropropane	ug/kg	ND	4.8	04/24/15 16:19	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.8	04/24/15 16:19	
1,2-Dichlorobenzene	ug/kg	ND	4.8	04/24/15 16:19	
1,2-Dichloroethane	ug/kg	ND	4.8	04/24/15 16:19	
1,2-Dichloropropane	ug/kg	ND	4.8	04/24/15 16:19	
1,3,5-Trimethylbenzene	ug/kg	ND	4.8	04/24/15 16:19	
1,3-Dichlorobenzene	ug/kg	ND	4.8	04/24/15 16:19	
1,3-Dichloropropane	ug/kg	ND	4.8	04/24/15 16:19	
1,4-Dichlorobenzene	ug/kg	ND	4.8	04/24/15 16:19	
2,2-Dichloropropane	ug/kg	ND	4.8	04/24/15 16:19	
2-Butanone (MEK)	ug/kg	ND	95.6	04/24/15 16:19	
2-Chlorotoluene	ug/kg	ND	4.8	04/24/15 16:19	
2-Hexanone	ug/kg	ND	47.8	04/24/15 16:19	
4-Chlorotoluene	ug/kg	ND	4.8	04/24/15 16:19	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	47.8	04/24/15 16:19	
Acetone	ug/kg	ND	95.6	04/24/15 16:19	
Benzene	ug/kg	ND	4.8	04/24/15 16:19	
Bromobenzene	ug/kg	ND	4.8	04/24/15 16:19	
Bromochloromethane	ug/kg	ND	4.8	04/24/15 16:19	
Bromodichloromethane	ug/kg	ND	4.8	04/24/15 16:19	
Bromoform	ug/kg	ND	4.8	04/24/15 16:19	
Bromomethane	ug/kg	ND	9.6	04/24/15 16:19	
Carbon tetrachloride	ug/kg	ND	4.8	04/24/15 16:19	
Chlorobenzene	ug/kg	ND	4.8	04/24/15 16:19	
Chloroethane	ug/kg	ND	9.6	04/24/15 16:19	
Chloroform	ug/kg	ND	4.8	04/24/15 16:19	
Chloromethane	ug/kg	ND	9.6	04/24/15 16:19	
cis-1,2-Dichloroethene	ug/kg	ND	4.8	04/24/15 16:19	
cis-1,3-Dichloropropene	ug/kg	ND	4.8	04/24/15 16:19	
Dibromochloromethane	ug/kg	ND	4.8	04/24/15 16:19	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

METHOD BLANK: 1442936

Matrix: Solid

Associated Lab Samples: 92246759005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	4.8	04/24/15 16:19	
Dichlorodifluoromethane	ug/kg	ND	9.6	04/24/15 16:19	
Diisopropyl ether	ug/kg	ND	4.8	04/24/15 16:19	
Ethylbenzene	ug/kg	ND	4.8	04/24/15 16:19	
Hexachloro-1,3-butadiene	ug/kg	ND	4.8	04/24/15 16:19	
Isopropylbenzene (Cumene)	ug/kg	ND	4.8	04/24/15 16:19	
m&p-Xylene	ug/kg	ND	9.6	04/24/15 16:19	
Methyl-tert-butyl ether	ug/kg	ND	4.8	04/24/15 16:19	
Methylene Chloride	ug/kg	ND	19.1	04/24/15 16:19	
n-Butylbenzene	ug/kg	ND	4.8	04/24/15 16:19	
n-Propylbenzene	ug/kg	ND	4.8	04/24/15 16:19	
Naphthalene	ug/kg	ND	4.8	04/24/15 16:19	
o-Xylene	ug/kg	ND	4.8	04/24/15 16:19	
p-Isopropyltoluene	ug/kg	ND	4.8	04/24/15 16:19	
sec-Butylbenzene	ug/kg	ND	4.8	04/24/15 16:19	
Styrene	ug/kg	ND	4.8	04/24/15 16:19	
tert-Butylbenzene	ug/kg	ND	4.8	04/24/15 16:19	
Tetrachloroethene	ug/kg	ND	4.8	04/24/15 16:19	
Toluene	ug/kg	ND	4.8	04/24/15 16:19	
trans-1,2-Dichloroethene	ug/kg	ND	4.8	04/24/15 16:19	
trans-1,3-Dichloropropene	ug/kg	ND	4.8	04/24/15 16:19	
Trichloroethene	ug/kg	ND	4.8	04/24/15 16:19	
Trichlorofluoromethane	ug/kg	ND	4.8	04/24/15 16:19	
Vinyl acetate	ug/kg	ND	47.8	04/24/15 16:19	
Vinyl chloride	ug/kg	ND	9.6	04/24/15 16:19	
Xylene (Total)	ug/kg	ND	9.6	04/24/15 16:19	
1,2-Dichloroethane-d4 (S)	%	102	70-132	04/24/15 16:19	
4-Bromofluorobenzene (S)	%	93	70-130	04/24/15 16:19	
Toluene-d8 (S)	%	99	70-130	04/24/15 16:19	

LABORATORY CONTROL SAMPLE: 1442937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	45.2	44.7	99	74-137	
1,1,1-Trichloroethane	ug/kg	45.2	45.7	101	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	45.2	42.0	93	72-141	
1,1,2-Trichloroethane	ug/kg	45.2	45.7	101	78-138	
1,1-Dichloroethane	ug/kg	45.2	46.3	103	69-134	
1,1-Dichloroethene	ug/kg	45.2	44.8	99	67-138	
1,1-Dichloropropene	ug/kg	45.2	51.2	113	69-139	
1,2,3-Trichlorobenzene	ug/kg	45.2	43.3	96	70-146	
1,2,3-Trichloropropane	ug/kg	45.2	45.1	100	69-144	
1,2,4-Trichlorobenzene	ug/kg	45.2	44.0	97	68-148	
1,2,4-Trimethylbenzene	ug/kg	45.2	46.1	102	74-137	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

LABORATORY CONTROL SAMPLE: 1442937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	45.2	38.6	85	65-140	
1,2-Dibromoethane (EDB)	ug/kg	45.2	45.4	100	77-135	
1,2-Dichlorobenzene	ug/kg	45.2	45.3	100	77-141	
1,2-Dichloroethane	ug/kg	45.2	43.8	97	65-137	
1,2-Dichloropropane	ug/kg	45.2	45.6	101	72-136	
1,3,5-Trimethylbenzene	ug/kg	45.2	45.9	101	76-133	
1,3-Dichlorobenzene	ug/kg	45.2	46.2	102	74-138	
1,3-Dichloropropane	ug/kg	45.2	45.4	100	71-139	
1,4-Dichlorobenzene	ug/kg	45.2	45.3	100	76-138	
2,2-Dichloropropane	ug/kg	45.2	43.7	97	68-137	
2-Butanone (MEK)	ug/kg	90.4	82.1J	91	58-147	
2-Chlorotoluene	ug/kg	45.2	45.7	101	73-139	
2-Hexanone	ug/kg	90.4	84.9	94	62-145	
4-Chlorotoluene	ug/kg	45.2	45.0	100	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	90.4	86.8	96	64-149	
Acetone	ug/kg	90.4	87.0J	96	53-153	
Benzene	ug/kg	45.2	47.1	104	73-135	
Bromobenzene	ug/kg	45.2	43.6	96	75-133	
Bromochloromethane	ug/kg	45.2	47.6	105	73-134	
Bromodichloromethane	ug/kg	45.2	41.1	91	71-135	
Bromoform	ug/kg	45.2	37.7	83	66-141	
Bromomethane	ug/kg	45.2	56.3	124	53-160	
Carbon tetrachloride	ug/kg	45.2	45.4	100	60-145	
Chlorobenzene	ug/kg	45.2	46.4	103	78-130	
Chloroethane	ug/kg	45.2	47.0	104	64-149	
Chloroform	ug/kg	45.2	43.4	96	70-134	
Chloromethane	ug/kg	45.2	46.3	102	52-150	
cis-1,2-Dichloroethene	ug/kg	45.2	46.6	103	70-133	
cis-1,3-Dichloropropene	ug/kg	45.2	46.3	102	68-134	
Dibromochloromethane	ug/kg	45.2	40.8	90	71-138	
Dibromomethane	ug/kg	45.2	44.8	99	74-130	
Dichlorodifluoromethane	ug/kg	45.2	42.6	94	40-160	
Diisopropyl ether	ug/kg	45.2	45.5	101	69-141	
Ethylbenzene	ug/kg	45.2	43.5	96	75-133	
Hexachloro-1,3-butadiene	ug/kg	45.2	40.9	91	68-143	
Isopropylbenzene (Cumene)	ug/kg	45.2	45.1	100	76-143	
m&p-Xylene	ug/kg	90.4	84.3	93	75-136	
Methyl-tert-butyl ether	ug/kg	45.2	42.7	94	68-144	
Methylene Chloride	ug/kg	45.2	45.8	101	45-154	
n-Butylbenzene	ug/kg	45.2	43.1	95	72-137	
n-Propylbenzene	ug/kg	45.2	43.0	95	76-136	
Naphthalene	ug/kg	45.2	46.6	103	68-151	
o-Xylene	ug/kg	45.2	44.1	98	76-141	
p-Isopropyltoluene	ug/kg	45.2	42.3	94	76-140	
sec-Butylbenzene	ug/kg	45.2	45.0	99	79-139	
Styrene	ug/kg	45.2	45.3	100	79-137	
tert-Butylbenzene	ug/kg	45.2	42.2	93	74-143	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

LABORATORY CONTROL SAMPLE: 1442937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	45.2	46.3	102	71-138	
Toluene	ug/kg	45.2	45.3	100	74-131	
trans-1,2-Dichloroethene	ug/kg	45.2	45.7	101	67-135	
trans-1,3-Dichloropropene	ug/kg	45.2	44.8	99	65-146	
Trichloroethene	ug/kg	45.2	47.4	105	67-135	
Trichlorofluoromethane	ug/kg	45.2	47.8	106	59-144	
Vinyl acetate	ug/kg	90.4	177	195	40-160	L0
Vinyl chloride	ug/kg	45.2	45.5	101	56-141	
Xylene (Total)	ug/kg	136	128	95	76-137	
1,2-Dichloroethane-d4 (S)	%			95	70-132	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1443727

Parameter	Units	92246874001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	24.6	24.6	100	70-130	
1,1,1-Trichloroethane	ug/kg	ND	24.6	27.1	110	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	ND	24.6	25.6	104	70-130	
1,1,2-Trichloroethane	ug/kg	ND	24.6	25.4	103	70-130	
1,1-Dichloroethane	ug/kg	ND	24.6	27.6	112	70-130	
1,1-Dichloroethene	ug/kg	ND	24.6	27.3	111	49-180	
1,1-Dichloropropene	ug/kg	ND	24.6	30.6	124	70-130	
1,2,3-Trichlorobenzene	ug/kg	ND	24.6	22.8	93	70-130	
1,2,3-Trichloropropane	ug/kg	ND	24.6	26.1	106	70-130	
1,2,4-Trichlorobenzene	ug/kg	ND	24.6	23.5	96	70-130	
1,2,4-Trimethylbenzene	ug/kg	ND	24.6	27.1	110	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	ND	24.6	22.3	91	70-130	
1,2-Dibromoethane (EDB)	ug/kg	ND	24.6	24.0	97	70-130	
1,2-Dichlorobenzene	ug/kg	ND	24.6	26.1	106	70-130	
1,2-Dichloroethane	ug/kg	ND	24.6	24.7	100	70-130	
1,2-Dichloropropane	ug/kg	ND	24.6	26.8	109	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	24.6	27.0	109	70-130	
1,3-Dichlorobenzene	ug/kg	ND	24.6	26.5	108	70-130	
1,3-Dichloropropane	ug/kg	ND	24.6	25.3	103	70-130	
1,4-Dichlorobenzene	ug/kg	ND	24.6	26.7	108	70-130	
2,2-Dichloropropane	ug/kg	ND	24.6	25.8	105	70-130	
2-Butanone (MEK)	ug/kg	ND	49.3	43.2J	88	70-130	
2-Chlorotoluene	ug/kg	ND	24.6	26.9	109	70-130	
2-Hexanone	ug/kg	ND	49.3	44.9J	90	70-130	
4-Chlorotoluene	ug/kg	ND	24.6	26.9	109	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	49.3	44.6J	91	70-130	
Acetone	ug/kg	ND	49.3	70.1J	142	70-130	M1
Benzene	ug/kg	ND	24.6	28.2	115	50-166	
Bromobenzene	ug/kg	ND	24.6	23.1	94	70-130	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

MATRIX SPIKE SAMPLE: 1443727		92246874001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromochloromethane	ug/kg	ND	24.6	27.0	109	70-130	
Bromodichloromethane	ug/kg	ND	24.6	23.2	94	70-130	
Bromoform	ug/kg	ND	24.6	20.5	83	70-130	
Bromomethane	ug/kg	ND	24.6	34.1	139	70-130	M1
Carbon tetrachloride	ug/kg	ND	24.6	28.0	114	70-130	
Chlorobenzene	ug/kg	ND	24.6	26.9	109	43-169	
Chloroethane	ug/kg	ND	24.6	29.1	118	70-130	
Chloroform	ug/kg	ND	24.6	25.1	102	70-130	
Chloromethane	ug/kg	ND	24.6	27.3	111	70-130	
cis-1,2-Dichloroethene	ug/kg	ND	24.6	26.9	109	70-130	
cis-1,3-Dichloropropene	ug/kg	ND	24.6	25.1	102	70-130	
Dibromochloromethane	ug/kg	ND	24.6	20.9	85	70-130	
Dibromomethane	ug/kg	ND	24.6	25.5	103	70-130	
Dichlorodifluoromethane	ug/kg	ND	24.6	26.8	109	70-130	
Diisopropyl ether	ug/kg	ND	24.6	25.3	103	70-130	
Ethylbenzene	ug/kg	ND	24.6	26.3	107	70-130	
Hexachloro-1,3-butadiene	ug/kg	ND	24.6	23.9	97	70-130	
Isopropylbenzene (Cumene)	ug/kg	ND	24.6	27.4	111	70-130	
m&p-Xylene	ug/kg	ND	49.3	51.2	104	70-130	
Methyl-tert-butyl ether	ug/kg	ND	24.6	23.4	95	70-130	
Methylene Chloride	ug/kg	ND	24.6	22.7J	92	70-130	
n-Butylbenzene	ug/kg	ND	24.6	26.0	106	70-130	
n-Propylbenzene	ug/kg	ND	24.6	26.5	108	70-130	
Naphthalene	ug/kg	ND	24.6	23.2	94	70-130	
o-Xylene	ug/kg	ND	24.6	25.2	102	70-130	
p-Isopropyltoluene	ug/kg	ND	24.6	25.7	104	70-130	
sec-Butylbenzene	ug/kg	ND	24.6	28.2	115	70-130	
Styrene	ug/kg	ND	24.6	25.6	104	70-130	
tert-Butylbenzene	ug/kg	ND	24.6	25.9	105	70-130	
Tetrachloroethene	ug/kg	ND	24.6	27.3	111	70-130	
Toluene	ug/kg	ND	24.6	27.2	110	52-163	
trans-1,2-Dichloroethene	ug/kg	ND	24.6	26.3	107	70-130	
trans-1,3-Dichloropropene	ug/kg	ND	24.6	23.8	96	70-130	
Trichloroethene	ug/kg	ND	24.6	27.0	110	49-167	
Trichlorofluoromethane	ug/kg	ND	24.6	29.4	119	70-130	
Vinyl acetate	ug/kg	ND	49.3	90.7	184	70-130	M0
Vinyl chloride	ug/kg	ND	24.6	28.0	114	70-130	
1,2-Dichloroethane-d4 (S)	%				101	70-132	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1443726

Parameter	Units	92245653003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

SAMPLE DUPLICATE: 1443726

Parameter	Units	92245653003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	4.2J	3.3J		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	27.6J	21.3J		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
2-Hexanone	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	4.9J	4.9J		30	
Acetone	ug/kg	272	289	6	30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Diisopropyl ether	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
m&p-Xylene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

SAMPLE DUPLICATE: 1443726

Parameter	Units	92245653003 Result	Dup Result	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	171	155	10	30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	1.3J		30	
o-Xylene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Toluene	ug/kg	3.0J	2.7J		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl acetate	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	136	132	4		
4-Bromofluorobenzene (S)	%	81	83	1		
Toluene-d8 (S)	%	93	93	1		

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

QC Batch: MSV/31398

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 92246759003

METHOD BLANK: 1444001

Matrix: Solid

Associated Lab Samples: 92246759003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.3	04/27/15 11:41	
1,1,1-Trichloroethane	ug/kg	ND	4.3	04/27/15 11:41	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.3	04/27/15 11:41	
1,1,2-Trichloroethane	ug/kg	ND	4.3	04/27/15 11:41	
1,1-Dichloroethane	ug/kg	ND	4.3	04/27/15 11:41	
1,1-Dichloroethene	ug/kg	ND	4.3	04/27/15 11:41	
1,1-Dichloropropene	ug/kg	ND	4.3	04/27/15 11:41	
1,2,3-Trichlorobenzene	ug/kg	ND	4.3	04/27/15 11:41	
1,2,3-Trichloropropane	ug/kg	ND	4.3	04/27/15 11:41	
1,2,4-Trichlorobenzene	ug/kg	ND	4.3	04/27/15 11:41	
1,2,4-Trimethylbenzene	ug/kg	ND	4.3	04/27/15 11:41	
1,2-Dibromo-3-chloropropane	ug/kg	ND	4.3	04/27/15 11:41	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.3	04/27/15 11:41	
1,2-Dichlorobenzene	ug/kg	ND	4.3	04/27/15 11:41	
1,2-Dichloroethane	ug/kg	ND	4.3	04/27/15 11:41	
1,2-Dichloropropane	ug/kg	ND	4.3	04/27/15 11:41	
1,3,5-Trimethylbenzene	ug/kg	ND	4.3	04/27/15 11:41	
1,3-Dichlorobenzene	ug/kg	ND	4.3	04/27/15 11:41	
1,3-Dichloropropane	ug/kg	ND	4.3	04/27/15 11:41	
1,4-Dichlorobenzene	ug/kg	ND	4.3	04/27/15 11:41	
2,2-Dichloropropane	ug/kg	ND	4.3	04/27/15 11:41	
2-Butanone (MEK)	ug/kg	ND	86.5	04/27/15 11:41	
2-Chlorotoluene	ug/kg	ND	4.3	04/27/15 11:41	
2-Hexanone	ug/kg	ND	43.3	04/27/15 11:41	
4-Chlorotoluene	ug/kg	ND	4.3	04/27/15 11:41	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	43.3	04/27/15 11:41	
Acetone	ug/kg	69.8J	86.5	04/27/15 11:41	
Benzene	ug/kg	ND	4.3	04/27/15 11:41	
Bromobenzene	ug/kg	ND	4.3	04/27/15 11:41	
Bromochloromethane	ug/kg	ND	4.3	04/27/15 11:41	
Bromodichloromethane	ug/kg	ND	4.3	04/27/15 11:41	
Bromoform	ug/kg	ND	4.3	04/27/15 11:41	
Bromomethane	ug/kg	ND	8.7	04/27/15 11:41	
Carbon tetrachloride	ug/kg	ND	4.3	04/27/15 11:41	
Chlorobenzene	ug/kg	ND	4.3	04/27/15 11:41	
Chloroethane	ug/kg	ND	8.7	04/27/15 11:41	
Chloroform	ug/kg	ND	4.3	04/27/15 11:41	
Chloromethane	ug/kg	ND	8.7	04/27/15 11:41	
cis-1,2-Dichloroethene	ug/kg	ND	4.3	04/27/15 11:41	
cis-1,3-Dichloropropene	ug/kg	ND	4.3	04/27/15 11:41	
Dibromochloromethane	ug/kg	ND	4.3	04/27/15 11:41	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

METHOD BLANK: 1444001

Matrix: Solid

Associated Lab Samples: 92246759003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	4.3	04/27/15 11:41	
Dichlorodifluoromethane	ug/kg	ND	8.7	04/27/15 11:41	
Diisopropyl ether	ug/kg	ND	4.3	04/27/15 11:41	
Ethylbenzene	ug/kg	ND	4.3	04/27/15 11:41	
Hexachloro-1,3-butadiene	ug/kg	ND	4.3	04/27/15 11:41	
Isopropylbenzene (Cumene)	ug/kg	ND	4.3	04/27/15 11:41	
m&p-Xylene	ug/kg	ND	8.7	04/27/15 11:41	
Methyl-tert-butyl ether	ug/kg	ND	4.3	04/27/15 11:41	
Methylene Chloride	ug/kg	ND	17.3	04/27/15 11:41	
n-Butylbenzene	ug/kg	ND	4.3	04/27/15 11:41	
n-Propylbenzene	ug/kg	ND	4.3	04/27/15 11:41	
Naphthalene	ug/kg	ND	4.3	04/27/15 11:41	
o-Xylene	ug/kg	ND	4.3	04/27/15 11:41	
p-Isopropyltoluene	ug/kg	ND	4.3	04/27/15 11:41	
sec-Butylbenzene	ug/kg	ND	4.3	04/27/15 11:41	
Styrene	ug/kg	ND	4.3	04/27/15 11:41	
tert-Butylbenzene	ug/kg	ND	4.3	04/27/15 11:41	
Tetrachloroethene	ug/kg	ND	4.3	04/27/15 11:41	
Toluene	ug/kg	ND	4.3	04/27/15 11:41	
trans-1,2-Dichloroethene	ug/kg	ND	4.3	04/27/15 11:41	
trans-1,3-Dichloropropene	ug/kg	ND	4.3	04/27/15 11:41	
Trichloroethene	ug/kg	ND	4.3	04/27/15 11:41	
Trichlorofluoromethane	ug/kg	ND	4.3	04/27/15 11:41	
Vinyl acetate	ug/kg	ND	43.3	04/27/15 11:41	
Vinyl chloride	ug/kg	ND	8.7	04/27/15 11:41	
Xylene (Total)	ug/kg	ND	8.7	04/27/15 11:41	
1,2-Dichloroethane-d4 (S)	%	104	70-132	04/27/15 11:41	
4-Bromofluorobenzene (S)	%	97	70-130	04/27/15 11:41	
Toluene-d8 (S)	%	110	70-130	04/27/15 11:41	

LABORATORY CONTROL SAMPLE: 1444002

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	44.4	50.0	113	74-137	
1,1,1-Trichloroethane	ug/kg	44.4	51.7	116	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	44.4	44.5	100	72-141	
1,1,2-Trichloroethane	ug/kg	44.4	49.9	112	78-138	
1,1-Dichloroethane	ug/kg	44.4	51.9	117	69-134	
1,1-Dichloroethene	ug/kg	44.4	48.9	110	67-138	
1,1-Dichloropropene	ug/kg	44.4	61.4	138	69-139	
1,2,3-Trichlorobenzene	ug/kg	44.4	50.7	114	70-146	
1,2,3-Trichloropropane	ug/kg	44.4	50.8	114	69-144	
1,2,4-Trichlorobenzene	ug/kg	44.4	49.7	112	68-148	
1,2,4-Trimethylbenzene	ug/kg	44.4	49.8	112	74-137	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

LABORATORY CONTROL SAMPLE: 1444002

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	44.4	49.8	112	65-140	
1,2-Dibromoethane (EDB)	ug/kg	44.4	51.0	115	77-135	
1,2-Dichlorobenzene	ug/kg	44.4	50.0	113	77-141	
1,2-Dichloroethane	ug/kg	44.4	48.4	109	65-137	
1,2-Dichloropropane	ug/kg	44.4	50.7	114	72-136	
1,3,5-Trimethylbenzene	ug/kg	44.4	49.2	111	76-133	
1,3-Dichlorobenzene	ug/kg	44.4	49.5	111	74-138	
1,3-Dichloropropane	ug/kg	44.4	50.2	113	71-139	
1,4-Dichlorobenzene	ug/kg	44.4	48.6	109	76-138	
2,2-Dichloropropane	ug/kg	44.4	50.5	114	68-137	
2-Butanone (MEK)	ug/kg	88.8	91.6	103	58-147	
2-Chlorotoluene	ug/kg	44.4	50.7	114	73-139	
2-Hexanone	ug/kg	88.8	94.7	107	62-145	
4-Chlorotoluene	ug/kg	44.4	49.6	112	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	88.8	97.7	110	64-149	
Acetone	ug/kg	88.8	87.0J	98	53-153	
Benzene	ug/kg	44.4	50.5	114	73-135	
Bromobenzene	ug/kg	44.4	48.4	109	75-133	
Bromochloromethane	ug/kg	44.4	53.2	120	73-134	
Bromodichloromethane	ug/kg	44.4	45.2	102	71-135	
Bromoform	ug/kg	44.4	49.3	111	66-141	
Bromomethane	ug/kg	44.4	54.4	122	53-160	
Carbon tetrachloride	ug/kg	44.4	49.9	112	60-145	
Chlorobenzene	ug/kg	44.4	48.2	109	78-130	
Chloroethane	ug/kg	44.4	50.9	115	64-149	
Chloroform	ug/kg	44.4	45.9	103	70-134	
Chloromethane	ug/kg	44.4	48.8	110	52-150	
cis-1,2-Dichloroethene	ug/kg	44.4	51.8	117	70-133	
cis-1,3-Dichloropropene	ug/kg	44.4	50.6	114	68-134	
Dibromochloromethane	ug/kg	44.4	48.7	110	71-138	
Dibromomethane	ug/kg	44.4	48.1	108	74-130	
Dichlorodifluoromethane	ug/kg	44.4	42.0	95	40-160	
Diisopropyl ether	ug/kg	44.4	52.2	117	69-141	
Ethylbenzene	ug/kg	44.4	48.4	109	75-133	
Hexachloro-1,3-butadiene	ug/kg	44.4	48.8	110	68-143	
Isopropylbenzene (Cumene)	ug/kg	44.4	50.9	115	76-143	
m&p-Xylene	ug/kg	88.8	98.5	111	75-136	
Methyl-tert-butyl ether	ug/kg	44.4	48.6	110	68-144	
Methylene Chloride	ug/kg	44.4	52.8	119	45-154	
n-Butylbenzene	ug/kg	44.4	49.1	111	72-137	
n-Propylbenzene	ug/kg	44.4	49.8	112	76-136	
Naphthalene	ug/kg	44.4	50.9	115	68-151	
o-Xylene	ug/kg	44.4	48.3	109	76-141	
p-Isopropyltoluene	ug/kg	44.4	48.4	109	76-140	
sec-Butylbenzene	ug/kg	44.4	53.2	120	79-139	
Styrene	ug/kg	44.4	49.7	112	79-137	
tert-Butylbenzene	ug/kg	44.4	49.4	111	74-143	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

LABORATORY CONTROL SAMPLE: 1444002

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	44.4	50.1	113	71-138	
Toluene	ug/kg	44.4	47.7	107	74-131	
trans-1,2-Dichloroethene	ug/kg	44.4	49.7	112	67-135	
trans-1,3-Dichloropropene	ug/kg	44.4	49.4	111	65-146	
Trichloroethene	ug/kg	44.4	52.7	119	67-135	
Trichlorofluoromethane	ug/kg	44.4	46.8	105	59-144	
Vinyl acetate	ug/kg	88.8	146	165	40-160	L0
Vinyl chloride	ug/kg	44.4	51.8	117	56-141	
Xylene (Total)	ug/kg	133	147	110	76-137	
1,2-Dichloroethane-d4 (S)	%			96	70-132	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1444723

Parameter	Units	92246841002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	23.2	25.6	110	70-130	
1,1,1-Trichloroethane	ug/kg	ND	23.2	25.3	109	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	ND	23.2	33.4	144	70-130	M1
1,1,2-Trichloroethane	ug/kg	ND	23.2	30.8	132	70-130	M1
1,1-Dichloroethane	ug/kg	ND	23.2	26.9	116	70-130	
1,1-Dichloroethene	ug/kg	ND	23.2	23.9	103	49-180	
1,1-Dichloropropene	ug/kg	ND	23.2	28.6	123	70-130	
1,2,3-Trichlorobenzene	ug/kg	ND	23.2	27.6	119	70-130	
1,2,3-Trichloropropane	ug/kg	ND	23.2	36.8	158	70-130	M1
1,2,4-Trichlorobenzene	ug/kg	ND	23.2	25.8	111	70-130	
1,2,4-Trimethylbenzene	ug/kg	ND	23.2	25.2	108	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	ND	23.2	34.1	147	70-130	M1
1,2-Dibromoethane (EDB)	ug/kg	ND	23.2	30.8	132	70-130	M1
1,2-Dichlorobenzene	ug/kg	ND	23.2	26.7	115	70-130	
1,2-Dichloroethane	ug/kg	ND	23.2	31.0	134	70-130	M1
1,2-Dichloropropane	ug/kg	ND	23.2	28.1	121	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	23.2	25.0	107	70-130	
1,3-Dichlorobenzene	ug/kg	ND	23.2	25.1	108	70-130	
1,3-Dichloropropane	ug/kg	ND	23.2	31.5	136	70-130	M1
1,4-Dichlorobenzene	ug/kg	ND	23.2	25.0	108	70-130	
2,2-Dichloropropane	ug/kg	ND	23.2	25.8	111	70-130	
2-Butanone (MEK)	ug/kg	ND	46.5	73.3J	158	70-130	M1
2-Chlorotoluene	ug/kg	ND	23.2	26.7	115	70-130	
2-Hexanone	ug/kg	ND	46.5	79.7	171	70-130	M1
4-Chlorotoluene	ug/kg	ND	23.2	25.3	109	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	46.5	81.6	176	70-130	M1
Acetone	ug/kg	ND	46.5	91.4J	192	70-130	M1
Benzene	ug/kg	ND	23.2	26.0	112	50-166	
Bromobenzene	ug/kg	ND	23.2	27.2	117	70-130	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

MATRIX SPIKE SAMPLE: 1444723		92246841002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Bromochloromethane	ug/kg	ND	23.2	29.7	128	70-130	
Bromodichloromethane	ug/kg	ND	23.2	24.9	107	70-130	
Bromoform	ug/kg	ND	23.2	27.1	117	70-130	
Bromomethane	ug/kg	ND	23.2	29.5	127	70-130	
Carbon tetrachloride	ug/kg	ND	23.2	23.9	103	70-130	
Chlorobenzene	ug/kg	ND	23.2	25.4	109	43-169	
Chloroethane	ug/kg	ND	23.2	27.5	119	70-130	
Chloroform	ug/kg	ND	23.2	24.8	107	70-130	
Chloromethane	ug/kg	ND	23.2	23.5	101	70-130	
cis-1,2-Dichloroethene	ug/kg	ND	23.2	27.8	120	70-130	
cis-1,3-Dichloropropene	ug/kg	ND	23.2	28.4	122	70-130	
Dibromochloromethane	ug/kg	ND	23.2	26.6	115	70-130	
Dibromomethane	ug/kg	ND	23.2	30.0	129	70-130	
Dichlorodifluoromethane	ug/kg	ND	23.2	20.3	87	70-130	
Diisopropyl ether	ug/kg	ND	23.2	29.0	125	70-130	
Ethylbenzene	ug/kg	ND	23.2	25.7	111	70-130	
Hexachloro-1,3-butadiene	ug/kg	ND	23.2	18.9	82	70-130	
Isopropylbenzene (Cumene)	ug/kg	ND	23.2	26.4	114	70-130	
m&p-Xylene	ug/kg	ND	46.5	49.2	106	70-130	
Methyl-tert-butyl ether	ug/kg	ND	23.2	33.8	145	70-130	M1
Methylene Chloride	ug/kg	ND	23.2	31.1	116	70-130	
n-Butylbenzene	ug/kg	ND	23.2	23.7	102	70-130	
n-Propylbenzene	ug/kg	ND	23.2	25.2	109	70-130	
Naphthalene	ug/kg	ND	23.2	37.2	160	70-130	M1
o-Xylene	ug/kg	ND	23.2	26.0	112	70-130	
p-Isopropyltoluene	ug/kg	ND	23.2	23.8	103	70-130	
sec-Butylbenzene	ug/kg	ND	23.2	25.4	109	70-130	
Styrene	ug/kg	ND	23.2	24.9	107	70-130	
tert-Butylbenzene	ug/kg	ND	23.2	23.7	102	70-130	
Tetrachloroethene	ug/kg	ND	23.2	23.3	100	70-130	
Toluene	ug/kg	ND	23.2	26.0	112	52-163	
trans-1,2-Dichloroethene	ug/kg	ND	23.2	25.7	111	70-130	
trans-1,3-Dichloropropene	ug/kg	ND	23.2	32.0	138	70-130	M1
Trichloroethene	ug/kg	ND	23.2	23.8	102	49-167	
Trichlorofluoromethane	ug/kg	ND	23.2	24.3	104	70-130	
Vinyl acetate	ug/kg	ND	46.5	167	359	70-130	M0
Vinyl chloride	ug/kg	ND	23.2	24.7	106	70-130	
1,2-Dichloroethane-d4 (S)	%				119	70-132	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1444722

Parameter	Units	92246709002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

SAMPLE DUPLICATE: 1444722

Parameter	Units	92246709002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	21.8J		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
2-Hexanone	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	281	106	91	30	D6
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Diisopropyl ether	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
m&p-Xylene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

SAMPLE DUPLICATE: 1444722

Parameter	Units	92246709002 Result	Dup Result	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
o-Xylene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	4.1J		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl acetate	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	151	129	18		
4-Bromofluorobenzene (S)	%	96	99	0		
Toluene-d8 (S)	%	107	103	6		

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3
Pace Project No.: 92246759

QC Batch: OEXT/34642 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 92246759001, 92246759002, 92246759003, 92246759004

METHOD BLANK: 1445758 Matrix: Solid
Associated Lab Samples: 92246759001, 92246759002, 92246759003, 92246759004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	5.0	04/29/15 15:28	
n-Pentacosane (S)	%	84	41-119	04/29/15 15:28	

Parameter	Units	1445759		1445760		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Diesel Range Organics(C10-C28)	mg/kg	66.7	57.4	59.8	86	90	4	30	
n-Pentacosane (S)	%				90	88			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

QC Batch: OEXT/34585 Analysis Method: EPA 8082
 QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
 Associated Lab Samples: 92246759001, 92246759002

METHOD BLANK: 1443828 Matrix: Solid

Associated Lab Samples: 92246759001, 92246759002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	04/27/15 15:24	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	04/27/15 15:24	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	04/27/15 15:24	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	04/27/15 15:24	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	04/27/15 15:24	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	04/27/15 15:24	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	04/27/15 15:24	
Decachlorobiphenyl (S)	%	102	21-132	04/27/15 15:24	

LABORATORY CONTROL SAMPLE & LCSD: 1443829 1443830

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	135	137	81	82	31-120	2	30	
PCB-1260 (Aroclor 1260)	ug/kg	167	141	151	85	90	32-120	6	30	
Decachlorobiphenyl (S)	%				105	107	21-132			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3
Pace Project No.: 92246759

QC Batch: OEXT/34649 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave PAH
Associated Lab Samples: 92246759005

METHOD BLANK: 1446051 Matrix: Solid
Associated Lab Samples: 92246759005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	330	04/30/15 09:28	
2-Methylnaphthalene	ug/kg	ND	330	04/30/15 09:28	
Acenaphthene	ug/kg	ND	330	04/30/15 09:28	
Acenaphthylene	ug/kg	ND	330	04/30/15 09:28	
Anthracene	ug/kg	ND	330	04/30/15 09:28	
Benzo(a)anthracene	ug/kg	ND	330	04/30/15 09:28	
Benzo(a)pyrene	ug/kg	ND	330	04/30/15 09:28	
Benzo(b)fluoranthene	ug/kg	ND	330	04/30/15 09:28	
Benzo(g,h,i)perylene	ug/kg	ND	330	04/30/15 09:28	
Benzo(k)fluoranthene	ug/kg	ND	330	04/30/15 09:28	
Chrysene	ug/kg	ND	330	04/30/15 09:28	
Dibenz(a,h)anthracene	ug/kg	ND	330	04/30/15 09:28	
Fluoranthene	ug/kg	ND	330	04/30/15 09:28	
Fluorene	ug/kg	ND	330	04/30/15 09:28	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	04/30/15 09:28	
Naphthalene	ug/kg	ND	330	04/30/15 09:28	
Phenanthrene	ug/kg	ND	330	04/30/15 09:28	
Pyrene	ug/kg	ND	330	04/30/15 09:28	
2-Fluorobiphenyl (S)	%	69	30-110	04/30/15 09:28	
Nitrobenzene-d5 (S)	%	74	23-110	04/30/15 09:28	
Terphenyl-d14 (S)	%	87	28-110	04/30/15 09:28	

LABORATORY CONTROL SAMPLE: 1446052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	1670	1120	67	40-120	
2-Methylnaphthalene	ug/kg	1670	1000	60	26-120	
Acenaphthene	ug/kg	1670	1440	87	46-120	
Acenaphthylene	ug/kg	1670	1390	83	46-120	
Anthracene	ug/kg	1670	1480	89	63-120	
Benzo(a)anthracene	ug/kg	1670	1470	88	61-120	
Benzo(a)pyrene	ug/kg	1670	1470	88	59-120	
Benzo(b)fluoranthene	ug/kg	1670	1370	82	55-120	
Benzo(g,h,i)perylene	ug/kg	1670	1450	87	57-120	
Benzo(k)fluoranthene	ug/kg	1670	1420	85	56-120	
Chrysene	ug/kg	1670	1440	86	64-120	
Dibenz(a,h)anthracene	ug/kg	1670	1490	89	56-120	
Fluoranthene	ug/kg	1670	1580	95	61-120	
Fluorene	ug/kg	1670	1490	89	51-120	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1490	89	58-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

LABORATORY CONTROL SAMPLE: 1446052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	1670	1060	64	38-120	
Phenanthrene	ug/kg	1670	1430	86	62-120	
Pyrene	ug/kg	1670	1370	82	63-120	
2-Fluorobiphenyl (S)	%			76	30-110	
Nitrobenzene-d5 (S)	%			67	23-110	
Terphenyl-d14 (S)	%			91	28-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1446053 1446054

Parameter	Units	92247084002		1446053		1446054		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
1-Methylnaphthalene	ug/kg	ND	1900	1900	1220	1270	64	67	24-116	4	30			
2-Methylnaphthalene	ug/kg	ND	1900	1900	1100	1150	58	60	10-135	4	30			
Acenaphthene	ug/kg	ND	1900	1900	1480	1610	78	85	26-114	8	30			
Acenaphthylene	ug/kg	ND	1900	1900	1410	1510	74	80	32-108	7	30			
Anthracene	ug/kg	ND	1900	1900	1440	1610	76	85	32-111	11	30			
Benzo(a)anthracene	ug/kg	ND	1900	1900	1390	1590	73	84	25-117	14	30			
Benzo(a)pyrene	ug/kg	ND	1900	1900	1410	1620	74	85	25-106	14	30			
Benzo(b)fluoranthene	ug/kg	ND	1900	1900	1310	1510	69	79	24-110	14	30			
Benzo(g,h,i)perylene	ug/kg	ND	1900	1900	1330	1540	70	81	19-112	15	30			
Benzo(k)fluoranthene	ug/kg	ND	1900	1900	1360	1510	72	79	24-114	10	30			
Chrysene	ug/kg	ND	1900	1900	1370	1610	72	85	30-110	16	30			
Dibenz(a,h)anthracene	ug/kg	ND	1900	1900	1380	1600	73	84	23-111	15	30			
Fluoranthene	ug/kg	ND	1900	1900	1570	1760	82	93	33-109	12	30			
Fluorene	ug/kg	ND	1900	1900	1520	1660	80	87	32-113	9	30			
Indeno(1,2,3-cd)pyrene	ug/kg	ND	1900	1900	1370	1600	72	84	10-122	15	30			
Naphthalene	ug/kg	ND	1900	1900	1100	1160	58	61	25-110	5	30			
Phenanthrene	ug/kg	ND	1900	1900	1410	1590	74	84	30-114	12	30			
Pyrene	ug/kg	ND	1900	1900	1310	1490	69	79	25-116	13	30			
2-Fluorobiphenyl (S)	%						67	70	30-110					
Nitrobenzene-d5 (S)	%						58	63	23-110					
Terphenyl-d14 (S)	%						77	85	28-110					

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3
Pace Project No.: 92246759

QC Batch:	PMST/7774	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	92246759004		

SAMPLE DUPLICATE: 1443166

Parameter	Units	92246697001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.7	15.4	19	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

QC Batch:	PMST/7810	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	92246759006		

SAMPLE DUPLICATE: 1448171

Parameter	Units	92246694001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.5	20.9	12	25	

SAMPLE DUPLICATE: 1448172

Parameter	Units	92247841003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.0	21.8	6	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g	The internal standard response is below criteria. No hits associated with this internal standard. Results unaffected by high bias.
2g	The sample was weighed and preserved in the laboratory from a soil jar. Sample was not preserved within 48 hours.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Buzzard Point, GW Rev3

Pace Project No.: 92246759

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92246759001	GSS-605-802-10-1	EPA 3546	OEXT/34642	EPA 8015 Modified	GCSV/21132
92246759002	GSS-605-802-12-1	EPA 3546	OEXT/34642	EPA 8015 Modified	GCSV/21132
92246759003	DP-001-S0-100-01	EPA 3546	OEXT/34642	EPA 8015 Modified	GCSV/21132
92246759004	DP-002-S0-100-01	EPA 3546	OEXT/34642	EPA 8015 Modified	GCSV/21132
92246759001	GSS-605-802-10-1	EPA 3546	OEXT/34585	EPA 8082	GCSV/21101
92246759002	GSS-605-802-12-1	EPA 3546	OEXT/34585	EPA 8082	GCSV/21101
92246759001	GSS-605-802-10-1	EPA 5035A/5030B	GCV/9275	EPA 8015 Modified	GCV/9285
92246759002	GSS-605-802-12-1	EPA 5035A/5030B	GCV/9275	EPA 8015 Modified	GCV/9285
92246759003	DP-001-S0-100-01	EPA 5035A/5030B	GCV/9275	EPA 8015 Modified	GCV/9285
92246759004	DP-002-S0-100-01	EPA 5035A/5030B	GCV/9275	EPA 8015 Modified	GCV/9285
92246759001	GSS-605-802-10-1	EPA 3050	MPRP/18359	EPA 6010	ICP/16481
92246759002	GSS-605-802-12-1	EPA 3050	MPRP/18359	EPA 6010	ICP/16481
92246759003	DP-001-S0-100-01	EPA 3050	MPRP/18359	EPA 6010	ICP/16481
92246759006	DP-002-S0-100-01	EPA 3050	MPRP/18359	EPA 6010	ICP/16481
92246759001	GSS-605-802-10-1	EPA 7471	MERP/7774	EPA 7471	MERC/7459
92246759002	GSS-605-802-12-1	EPA 7471	MERP/7782	EPA 7471	MERC/7467
92246759003	DP-001-S0-100-01	EPA 7471	MERP/7774	EPA 7471	MERC/7459
92246759006	DP-002-S0-100-01	EPA 7471	MERP/7774	EPA 7471	MERC/7459
92246759005	DP-002-S0-100-01	EPA 3546	OEXT/34649	EPA 8270	MSSV/10609
92246759003	DP-001-S0-100-01	EPA 8260	MSV/31398		
92246759005	DP-002-S0-100-01	EPA 8260	MSV/31363		
92246759001	GSS-605-802-10-1	ASTM D2974-87	PMST/7772		
92246759002	GSS-605-802-12-1	ASTM D2974-87	PMST/7772		
92246759003	DP-001-S0-100-01	ASTM D2974-87	PMST/7772		
92246759004	DP-002-S0-100-01	ASTM D2974-87	PMST/7774		
92246759005	DP-002-S0-100-01	ASTM D2974-87	PMST/7799		
92246759006	DP-002-S0-100-01	ASTM D2974-87	PMST/7810		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt (SCUR)

Document Number: F-CHR-CS-003-rev.15

Issuing Authority: Pace Huntersville Quality Office

Client Name: Haley & Aldrich, Inc

Carrier: FedEx UPS USPS Client Commercial Pace Other

Instody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used: IR Gun T1401 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 6.0 °C

Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: MG, 4/27/15

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Push Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

SCURF Review: N/A Date: 042315
SRF Review: N/A Date: 042315

WO#: 92246759

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2
1906771

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <u>Haley & Aldrich, Inc</u>		Report To: <u>Dave Schoenwolf</u>		Attention:	
Address: <u>7926 Jones branch drive</u>		Copy To:		Company Name:	
<u>McLean, VA 22102</u>		Purchase Order No.:		Address:	
Email To: <u>dschoenwolf@haleyaldrich.com</u>		Project Name: <u>Buzzard Point GW</u>		Pace Quote Reference:	
Phone: Fax:		Project Number:		Pace Project Manager: <u>m.cole, ben.jarrin@PaceLabs.com</u>	
Requested Due Date/TAT: <u>Standard TAT</u>		Project Number:		Pace Profile #: <u>7362-1</u>	
				REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
				Site Location	
				STATE: _____	

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol				Other
					DATE	TIME	DATE	TIME													
1	GTW-605-802-10-1		SL		04/21	12:36			6	X						X					
2	GTW-605-802-10-1		SL		04/21	12:36			1	X						X					
3	GTW-605-802-10- 2 1		SL		04/21	12:36			1	X						X					
4	GTW-605-802-10- 3 1		SL		04/21	12:36			1	X						X					
5	GSS-605-802-12- 2 1		SL		04/22	16:00			6	X						X					
6	GSS-605-802-12- 2 1		SL		04/22	16:00			1	X						X					
7	GSS-605-802-12- 2 1		SL		04/22	16:00			1	X						X					
8	GSS-605-802-12- 2 3 1		SL		04/22	16:00			1	X						X					
9	DP-001-50-050-01		SL		04/22	13:30			6	X						X					
10	DP-001-50-050-01		SL		04/22	13:30			1	X						X					
11	DP-001-50-050-01		SL		04/22	13:30			1	X						X					
12	DP-001-50-050-01		SL		04/22	13:30			1	X						X					

92246759
Pace Project No./ Lab I.D.
01
002
003

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	CHRISTIAN TSCHUBEL	04/22	18:20	FEDEX	04/22	19:00				
<u>100</u>				<u>Mohammed Pace</u>	9/25/15	09:40	00	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>Christian Tschubel</u>					
SIGNATURE of SAMPLER: <u>Christian Tschubel</u>					
DATE Signed (MM/DD/YY): <u>04/22/15</u>					



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:
 Company: Haley & Aldrich, Inc.
 Address: 7926 Jones Branch Dr
 Mc Lean, VA 22102
 Email: dschoenwolf@haleyaldrich.com
 Phone: NONE Fax
 Requested Due Date:

Section B

Required Project Information:
 Report To: Dave Schoenwolf
 Copy To:
 Purchase Order #:
 Project Name: Buzzard Point GW
 Project #:

Section C

Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: nicole.benjamin@pacelabs.com,
 Pace Profile #:

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test	Y/N	Requested Analysis Filtered (Y/N)								Residual Chlorine (Y/N)
					START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	DRO by 8015	GRO 8015			VOC by 8260B	Trip Blank-HCL	SVOC-027D	Metals-by-6020-ICRMS	METALS by 8010	PAHS by 8270C			
					DATE	TIME	DATE	TIME																							
①	DP-002-S0-020-01			SL	04/22	12:57			6	X										X	X							92246759			
2	DP-002-S0-020-01			SL	04/22	12:57			1	X										X								004			
③	DP-002-S0-050-01			SL	04/22	12:57			1	X											X							005			
4	DP-002-S0-050-01			SL	04/22	12:57			1	X												X						006			
⑤	DP-002-S0-050-01			SL	04/22	12:57			1	X												X									
6																															
7																															
8																															
9																															
10																															
11																															
12																															

100
4/20/15

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
				<i>M. S. / Pace</i>	4/23/15	9:40		Y	N	Y

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:								
SIGNATURE of SAMPLER:		DATE Signed:						

May 27, 2015

Dana Kennard
Haley & Aldrich, Inc

RE: Project: Buzzard Point, Washington DC R1
Pace Project No.: 92247031

Dear Dana Kennard:

Enclosed are the analytical results for sample(s) received by the laboratory on April 24, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This report was revised to report down to the MDL for all parameters.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Nicole Benjamin
nicole.benjamin@pacelabs.com
Project Manager

Enclosures

cc: Karin Holland
Pam Minor



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92247031001	GTW-605-802-1-1	Solid	04/22/15 10:57	04/24/15 09:45
92247031002	GTW-605-802-2-1	Solid	04/22/15 09:15	04/24/15 09:45
92247031003	GSS-605-802-11-1	Solid	04/22/15 08:19	04/24/15 09:45
92247031004	GSS-605-802-12-2	Solid	04/22/15 16:00	04/24/15 09:45
92247031005	TRIP BLANK	Water	04/22/15 00:00	04/24/15 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92247031001	GTW-605-802-1-1	EPA 8015 Modified	CMI	2	PASI-C
		EPA 8082	SWB	8	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		ASTM D2974-87	EJK	1	PASI-C
92247031002	GTW-605-802-2-1	EPA 8015 Modified	CMI	2	PASI-C
		EPA 8082	SWB	8	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		ASTM D2974-87	EJK	1	PASI-C
92247031003	GSS-605-802-11-1	EPA 8015 Modified	CMI	2	PASI-C
		EPA 8082	SWB	8	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		ASTM D2974-87	EJK	1	PASI-C
92247031004	GSS-605-802-12-2	EPA 8015 Modified	CMI	2	PASI-C
		EPA 8082	SWB	8	PASI-C
		EPA 8015 Modified	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		ASTM D2974-87	EJK	1	PASI-C
92247031005	TRIP BLANK	EPA 8260	DLK	63	PASI-C

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Buzzard Point, Washington DC R1
Pace Project No.: 92247031

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92247031001	GTW-605-802-1-1					
EPA 6010	Aluminum	14400	mg/kg	114	04/29/15 21:40	
EPA 6010	Arsenic	4.2	mg/kg	1.1	04/29/15 15:46	
EPA 6010	Barium	104	mg/kg	0.57	04/29/15 15:46	
EPA 6010	Beryllium	0.92	mg/kg	0.11	04/29/15 15:46	
EPA 6010	Cadmium	0.11J	mg/kg	0.11	04/29/15 15:46	
EPA 6010	Calcium	1390	mg/kg	11.4	04/29/15 15:46	
EPA 6010	Chromium	16.9	mg/kg	0.57	04/29/15 15:46	
EPA 6010	Cobalt	8.3	mg/kg	0.57	04/29/15 15:46	
EPA 6010	Copper	27.1	mg/kg	0.57	04/29/15 15:46	
EPA 6010	Iron	26900	mg/kg	114	04/29/15 21:40	
EPA 6010	Lead	14.4	mg/kg	0.57	04/29/15 15:46	
EPA 6010	Magnesium	2790	mg/kg	11.4	04/29/15 15:46	
EPA 6010	Manganese	134	mg/kg	0.57	04/29/15 15:46	
EPA 6010	Nickel	17.3	mg/kg	0.57	04/29/15 15:46	
EPA 6010	Potassium	777	mg/kg	570	04/29/15 15:46	
EPA 6010	Vanadium	32.5	mg/kg	0.57	04/29/15 15:46	
EPA 6010	Zinc	51.5	mg/kg	1.1	04/29/15 15:46	
EPA 7471	Mercury	0.014	mg/kg	0.0048	04/28/15 13:44	
ASTM D2974-87	Percent Moisture	30.4	%	0.10	04/29/15 13:06	
92247031002	GTW-605-802-2-1					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	135	mg/kg	6.8	05/01/15 20:41	
EPA 6010	Aluminum	7360	mg/kg	9.0	04/29/15 15:58	
EPA 6010	Arsenic	7.1	mg/kg	0.90	04/29/15 15:58	
EPA 6010	Barium	68.3	mg/kg	0.45	04/29/15 15:58	
EPA 6010	Beryllium	0.87	mg/kg	0.090	04/29/15 15:58	
EPA 6010	Cadmium	0.054J	mg/kg	0.090	04/29/15 15:58	
EPA 6010	Calcium	1830	mg/kg	9.0	04/29/15 15:58	
EPA 6010	Chromium	9.1	mg/kg	0.45	04/29/15 15:58	
EPA 6010	Cobalt	20.4	mg/kg	0.45	04/29/15 15:58	
EPA 6010	Copper	7.0	mg/kg	0.45	04/29/15 15:58	
EPA 6010	Iron	16000	mg/kg	90.1	04/29/15 21:43	
EPA 6010	Lead	14.8	mg/kg	0.45	04/29/15 15:58	
EPA 6010	Magnesium	672	mg/kg	9.0	04/29/15 15:58	
EPA 6010	Manganese	2310	mg/kg	4.5	04/29/15 21:43	
EPA 6010	Nickel	6.9	mg/kg	0.45	04/29/15 15:58	
EPA 6010	Potassium	517	mg/kg	450	04/29/15 15:58	
EPA 6010	Vanadium	22.2	mg/kg	0.45	04/29/15 15:58	
EPA 6010	Zinc	19.0	mg/kg	0.90	04/29/15 15:58	
EPA 7471	Mercury	0.049	mg/kg	0.0044	04/28/15 13:46	
ASTM D2974-87	Percent Moisture	26.0	%	0.10	04/29/15 13:06	
92247031003	GSS-605-802-11-1					
EPA 6010	Aluminum	10600	mg/kg	82.4	04/29/15 21:47	
EPA 6010	Arsenic	4.1	mg/kg	0.82	04/29/15 16:02	
EPA 6010	Barium	68.7	mg/kg	0.41	04/29/15 16:02	
EPA 6010	Beryllium	0.48	mg/kg	0.082	04/29/15 16:02	
EPA 6010	Cadmium	0.069J	mg/kg	0.082	04/29/15 16:02	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92247031003	GSS-605-802-11-1					
EPA 6010	Calcium	648	mg/kg	8.2	04/29/15 16:02	
EPA 6010	Chromium	15.0	mg/kg	0.41	04/29/15 16:02	
EPA 6010	Cobalt	3.4	mg/kg	0.41	04/29/15 16:02	
EPA 6010	Copper	12.6	mg/kg	0.41	04/29/15 16:02	
EPA 6010	Iron	21200	mg/kg	82.4	04/29/15 21:47	
EPA 6010	Lead	11.1	mg/kg	0.41	04/29/15 16:02	
EPA 6010	Magnesium	1560	mg/kg	8.2	04/29/15 16:02	
EPA 6010	Manganese	87.6	mg/kg	0.41	04/29/15 16:02	
EPA 6010	Nickel	7.9	mg/kg	0.41	04/29/15 16:02	
EPA 6010	Potassium	413	mg/kg	412	04/29/15 16:02	
EPA 6010	Vanadium	27.0	mg/kg	0.41	04/29/15 16:02	
EPA 6010	Zinc	26.4	mg/kg	0.82	04/29/15 16:02	
EPA 7471	Mercury	0.030	mg/kg	0.0052	04/28/15 13:48	
ASTM D2974-87	Percent Moisture	19.1	%	0.10	04/29/15 13:07	
92247031004	GSS-605-802-12-2					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	25.2	mg/kg	6.3	05/01/15 04:04	
EPA 6010	Aluminum	10700	mg/kg	11.3	04/29/15 16:05	
EPA 6010	Arsenic	6.0	mg/kg	1.1	04/29/15 16:05	
EPA 6010	Barium	97.5	mg/kg	0.56	04/29/15 16:05	
EPA 6010	Beryllium	0.71	mg/kg	0.11	04/29/15 16:05	
EPA 6010	Cadmium	0.098J	mg/kg	0.11	04/29/15 16:05	
EPA 6010	Calcium	366	mg/kg	11.3	04/29/15 16:05	
EPA 6010	Chromium	12.9	mg/kg	0.56	04/29/15 16:05	
EPA 6010	Cobalt	10.8	mg/kg	0.56	04/29/15 16:05	
EPA 6010	Copper	16.2	mg/kg	0.56	04/29/15 16:05	
EPA 6010	Iron	25500	mg/kg	113	04/29/15 21:50	
EPA 6010	Lead	14.3	mg/kg	0.56	04/29/15 16:05	
EPA 6010	Magnesium	1800	mg/kg	11.3	04/29/15 16:05	
EPA 6010	Manganese	274	mg/kg	0.56	04/29/15 16:05	
EPA 6010	Nickel	11.4	mg/kg	0.56	04/29/15 16:05	
EPA 6010	Vanadium	27.2	mg/kg	0.56	04/29/15 16:05	
EPA 6010	Zinc	35.7	mg/kg	1.1	04/29/15 16:05	
EPA 7471	Mercury	0.0078	mg/kg	0.0044	04/28/15 13:51	
ASTM D2974-87	Percent Moisture	20.9	%	0.10	04/29/15 13:07	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1
Pace Project No.: 92247031

Sample: GTW-605-802-1-1 **Lab ID: 92247031001** Collected: 04/22/15 10:57 Received: 04/24/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	ND	mg/kg	7.2	6.5	1	04/29/15 17:52	05/01/15 20:17		
Surrogates									
n-Pentacosane (S)	79	%	41-119		1	04/29/15 17:52	05/01/15 20:17	629-99-2	
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	47.4	21.6	1	04/29/15 09:00	04/29/15 19:21	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	47.4	21.6	1	04/29/15 09:00	04/29/15 19:21	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	47.4	21.6	1	04/29/15 09:00	04/29/15 19:21	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	47.4	21.6	1	04/29/15 09:00	04/29/15 19:21	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	47.4	21.6	1	04/29/15 09:00	04/29/15 19:21	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	47.4	21.6	1	04/29/15 09:00	04/29/15 19:21	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	47.4	21.6	1	04/29/15 09:00	04/29/15 19:21	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	60	%	21-132		1	04/29/15 09:00	04/29/15 19:21	2051-24-3	
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	8.6	8.6	1	05/01/15 09:17	05/01/15 19:06		
Surrogates									
4-Bromofluorobenzene (S)	146	%	70-167		1	05/01/15 09:17	05/01/15 19:06	460-00-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	14400	mg/kg	114	57.0	10	04/28/15 16:00	04/29/15 21:40	7429-90-5	
Antimony	ND	mg/kg	0.57	0.44	1	04/28/15 16:00	04/29/15 15:46	7440-36-0	
Arsenic	4.2	mg/kg	1.1	0.57	1	04/28/15 16:00	04/29/15 15:46	7440-38-2	
Barium	104	mg/kg	0.57	0.29	1	04/28/15 16:00	04/29/15 15:46	7440-39-3	
Beryllium	0.92	mg/kg	0.11	0.057	1	04/28/15 16:00	04/29/15 15:46	7440-41-7	
Cadmium	0.11J	mg/kg	0.11	0.057	1	04/28/15 16:00	04/29/15 15:46	7440-43-9	
Calcium	1390	mg/kg	11.4	5.7	1	04/28/15 16:00	04/29/15 15:46	7440-70-2	
Chromium	16.9	mg/kg	0.57	0.29	1	04/28/15 16:00	04/29/15 15:46	7440-47-3	
Cobalt	8.3	mg/kg	0.57	0.29	1	04/28/15 16:00	04/29/15 15:46	7440-48-4	
Copper	27.1	mg/kg	0.57	0.29	1	04/28/15 16:00	04/29/15 15:46	7440-50-8	
Iron	26900	mg/kg	114	57.0	10	04/28/15 16:00	04/29/15 21:40	7439-89-6	
Lead	14.4	mg/kg	0.57	0.29	1	04/28/15 16:00	04/29/15 15:46	7439-92-1	
Magnesium	2790	mg/kg	11.4	0.29	1	04/28/15 16:00	04/29/15 15:46	7439-95-4	
Manganese	134	mg/kg	0.57	0.29	1	04/28/15 16:00	04/29/15 15:46	7439-96-5	
Nickel	17.3	mg/kg	0.57	0.29	1	04/28/15 16:00	04/29/15 15:46	7440-02-0	
Potassium	777	mg/kg	570	570	1	04/28/15 16:00	04/29/15 15:46	7440-09-7	
Selenium	ND	mg/kg	1.1	0.57	1	04/28/15 16:00	04/29/15 15:46	7782-49-2	
Silver	ND	mg/kg	0.57	0.29	1	04/28/15 16:00	04/29/15 15:46	7440-22-4	
Sodium	ND	mg/kg	570	285	1	04/28/15 16:00	04/29/15 15:46	7440-23-5	
Thallium	ND	mg/kg	1.1	0.57	1	04/28/15 16:00	04/29/15 15:46	7440-28-0	
Vanadium	32.5	mg/kg	0.57	0.29	1	04/28/15 16:00	04/29/15 15:46	7440-62-2	
Zinc	51.5	mg/kg	1.1	0.57	1	04/28/15 16:00	04/29/15 15:46	7440-66-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

Sample: GTW-605-802-1-1 **Lab ID: 92247031001** Collected: 04/22/15 10:57 Received: 04/24/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.014	mg/kg	0.0048	0.000096	1	04/25/15 16:35	04/28/15 13:44	7439-97-6	
Analytical Method: ASTM D2974-87									
Percent Moisture									
Percent Moisture	30.4	%	0.10	0.10	1		04/29/15 13:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Sample Project No.: 92247031

Sample: GTW-605-802-2-1 **Lab ID: 92247031002** Collected: 04/22/15 09:15 Received: 04/24/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified					Preparation Method: EPA 3546				
Diesel Range Organics(C10-C28)	135	mg/kg	6.8	6.1	1	04/29/15 17:52	05/01/15 20:41		
Surrogates									
n-Pentacosane (S)	109	%	41-119		1	04/29/15 17:52	05/01/15 20:41	629-99-2	
8082 GCS PCB									
Analytical Method: EPA 8082					Preparation Method: EPA 3546				
PCB-1016 (Aroclor 1016)	ND	ug/kg	223	101	5	04/29/15 09:00	04/29/15 19:42	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	223	101	5	04/29/15 09:00	04/29/15 19:42	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	223	101	5	04/29/15 09:00	04/29/15 19:42	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	223	101	5	04/29/15 09:00	04/29/15 19:42	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	223	101	5	04/29/15 09:00	04/29/15 19:42	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	223	101	5	04/29/15 09:00	04/29/15 19:42	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	223	101	5	04/29/15 09:00	04/29/15 19:42	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	0	%	21-132		5	04/29/15 09:00	04/29/15 19:42	2051-24-3	D3,S4
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified					Preparation Method: EPA 5035A/5030B				
Gas Range Organics (C6-C10)	ND	mg/kg	8.0	8.0	1	05/01/15 09:17	05/01/15 21:10		
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-167		1	05/01/15 09:17	05/01/15 21:10	460-00-4	
6010 MET ICP									
Analytical Method: EPA 6010					Preparation Method: EPA 3050				
Aluminum	7360	mg/kg	9.0	4.5	1	04/28/15 16:00	04/29/15 15:58	7429-90-5	
Antimony	ND	mg/kg	0.45	0.35	1	04/28/15 16:00	04/29/15 15:58	7440-36-0	
Arsenic	7.1	mg/kg	0.90	0.45	1	04/28/15 16:00	04/29/15 15:58	7440-38-2	
Barium	68.3	mg/kg	0.45	0.23	1	04/28/15 16:00	04/29/15 15:58	7440-39-3	
Beryllium	0.87	mg/kg	0.090	0.045	1	04/28/15 16:00	04/29/15 15:58	7440-41-7	
Cadmium	0.054J	mg/kg	0.090	0.045	1	04/28/15 16:00	04/29/15 15:58	7440-43-9	
Calcium	1830	mg/kg	9.0	4.5	1	04/28/15 16:00	04/29/15 15:58	7440-70-2	
Chromium	9.1	mg/kg	0.45	0.23	1	04/28/15 16:00	04/29/15 15:58	7440-47-3	
Cobalt	20.4	mg/kg	0.45	0.23	1	04/28/15 16:00	04/29/15 15:58	7440-48-4	
Copper	7.0	mg/kg	0.45	0.23	1	04/28/15 16:00	04/29/15 15:58	7440-50-8	
Iron	16000	mg/kg	90.1	45.0	10	04/28/15 16:00	04/29/15 21:43	7439-89-6	
Lead	14.8	mg/kg	0.45	0.23	1	04/28/15 16:00	04/29/15 15:58	7439-92-1	
Magnesium	672	mg/kg	9.0	0.23	1	04/28/15 16:00	04/29/15 15:58	7439-95-4	
Manganese	2310	mg/kg	4.5	2.3	10	04/28/15 16:00	04/29/15 21:43	7439-96-5	
Nickel	6.9	mg/kg	0.45	0.23	1	04/28/15 16:00	04/29/15 15:58	7440-02-0	
Potassium	517	mg/kg	450	450	1	04/28/15 16:00	04/29/15 15:58	7440-09-7	
Selenium	ND	mg/kg	0.90	0.45	1	04/28/15 16:00	04/29/15 15:58	7782-49-2	
Silver	ND	mg/kg	0.45	0.23	1	04/28/15 16:00	04/29/15 15:58	7440-22-4	
Sodium	ND	mg/kg	450	225	1	04/28/15 16:00	04/29/15 15:58	7440-23-5	
Thallium	ND	mg/kg	0.90	0.45	1	04/28/15 16:00	04/29/15 15:58	7440-28-0	
Vanadium	22.2	mg/kg	0.45	0.23	1	04/28/15 16:00	04/29/15 15:58	7440-62-2	
Zinc	19.0	mg/kg	0.90	0.45	1	04/28/15 16:00	04/29/15 15:58	7440-66-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

Sample: GTW-605-802-2-1 **Lab ID: 92247031002** Collected: 04/22/15 09:15 Received: 04/24/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.049	mg/kg	0.0044	0.000088	1	04/25/15 16:35	04/28/15 13:46	7439-97-6	
Analytical Method: ASTM D2974-87									
Percent Moisture									
Percent Moisture	26.0	%	0.10	0.10	1		04/29/15 13:06		

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

Sample: GSS-605-802-11-1 **Lab ID: 92247031003** Collected: 04/22/15 08:19 Received: 04/24/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	ND	mg/kg	6.2	5.6	1	04/29/15 17:52	05/01/15 20:41		
Surrogates									
n-Pentacosane (S)	82	%	41-119		1	04/29/15 17:52	05/01/15 20:41	629-99-2	
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.8	18.5	1	04/29/15 09:00	04/29/15 20:02	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.8	18.5	1	04/29/15 09:00	04/29/15 20:02	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.8	18.5	1	04/29/15 09:00	04/29/15 20:02	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.8	18.5	1	04/29/15 09:00	04/29/15 20:02	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.8	18.5	1	04/29/15 09:00	04/29/15 20:02	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	40.8	18.5	1	04/29/15 09:00	04/29/15 20:02	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.8	18.5	1	04/29/15 09:00	04/29/15 20:02	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	83	%	21-132		1	04/29/15 09:00	04/29/15 20:02	2051-24-3	
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	7.4	7.4	1	05/01/15 09:17	05/01/15 21:36		
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-167		1	05/01/15 09:17	05/01/15 21:36	460-00-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	10600	mg/kg	82.4	41.2	10	04/28/15 16:00	04/29/15 21:47	7429-90-5	
Antimony	ND	mg/kg	0.41	0.32	1	04/28/15 16:00	04/29/15 16:02	7440-36-0	
Arsenic	4.1	mg/kg	0.82	0.41	1	04/28/15 16:00	04/29/15 16:02	7440-38-2	
Barium	68.7	mg/kg	0.41	0.21	1	04/28/15 16:00	04/29/15 16:02	7440-39-3	
Beryllium	0.48	mg/kg	0.082	0.041	1	04/28/15 16:00	04/29/15 16:02	7440-41-7	
Cadmium	0.069J	mg/kg	0.082	0.041	1	04/28/15 16:00	04/29/15 16:02	7440-43-9	
Calcium	648	mg/kg	8.2	4.1	1	04/28/15 16:00	04/29/15 16:02	7440-70-2	
Chromium	15.0	mg/kg	0.41	0.21	1	04/28/15 16:00	04/29/15 16:02	7440-47-3	
Cobalt	3.4	mg/kg	0.41	0.21	1	04/28/15 16:00	04/29/15 16:02	7440-48-4	
Copper	12.6	mg/kg	0.41	0.21	1	04/28/15 16:00	04/29/15 16:02	7440-50-8	
Iron	21200	mg/kg	82.4	41.2	10	04/28/15 16:00	04/29/15 21:47	7439-89-6	
Lead	11.1	mg/kg	0.41	0.21	1	04/28/15 16:00	04/29/15 16:02	7439-92-1	
Magnesium	1560	mg/kg	8.2	0.21	1	04/28/15 16:00	04/29/15 16:02	7439-95-4	
Manganese	87.6	mg/kg	0.41	0.21	1	04/28/15 16:00	04/29/15 16:02	7439-96-5	
Nickel	7.9	mg/kg	0.41	0.21	1	04/28/15 16:00	04/29/15 16:02	7440-02-0	
Potassium	413	mg/kg	412	412	1	04/28/15 16:00	04/29/15 16:02	7440-09-7	
Selenium	ND	mg/kg	0.82	0.41	1	04/28/15 16:00	04/29/15 16:02	7782-49-2	
Silver	ND	mg/kg	0.41	0.21	1	04/28/15 16:00	04/29/15 16:02	7440-22-4	
Sodium	ND	mg/kg	412	206	1	04/28/15 16:00	04/29/15 16:02	7440-23-5	
Thallium	ND	mg/kg	0.82	0.41	1	04/28/15 16:00	04/29/15 16:02	7440-28-0	
Vanadium	27.0	mg/kg	0.41	0.21	1	04/28/15 16:00	04/29/15 16:02	7440-62-2	
Zinc	26.4	mg/kg	0.82	0.41	1	04/28/15 16:00	04/29/15 16:02	7440-66-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

Sample: GSS-605-802-11-1 **Lab ID: 92247031003** Collected: 04/22/15 08:19 Received: 04/24/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.030	mg/kg	0.0052	0.00010	1	04/25/15 16:35	04/28/15 13:48	7439-97-6	
Analytical Method: ASTM D2974-87									
Percent Moisture	19.1	%	0.10	0.10	1		04/29/15 13:07		

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Lab Project No.: 92247031

Sample: GSS-605-802-12-2 **Lab ID: 92247031004** Collected: 04/22/15 16:00 Received: 04/24/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546									
Diesel Range Organics(C10-C28)	25.2	mg/kg	6.3	5.7	1	04/29/15 17:54	05/01/15 04:04		
Surrogates									
n-Pentacosane (S)	85	%	41-119		1	04/29/15 17:54	05/01/15 04:04	629-99-2	
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	417	190	10	04/29/15 09:00	04/29/15 20:23	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	417	190	10	04/29/15 09:00	04/29/15 20:23	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	417	190	10	04/29/15 09:00	04/29/15 20:23	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	417	190	10	04/29/15 09:00	04/29/15 20:23	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	417	190	10	04/29/15 09:00	04/29/15 20:23	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	417	190	10	04/29/15 09:00	04/29/15 20:23	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	417	190	10	04/29/15 09:00	04/29/15 20:23	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	0	%	21-132		10	04/29/15 09:00	04/29/15 20:23	2051-24-3	D3,S4
Gasoline Range Organics									
Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B									
Gas Range Organics (C6-C10)	ND	mg/kg	7.6	7.6	1	05/01/15 09:17	05/01/15 22:02		
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-167		1	05/01/15 09:17	05/01/15 22:02	460-00-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Aluminum	10700	mg/kg	11.3	5.6	1	04/28/15 16:00	04/29/15 16:05	7429-90-5	
Antimony	ND	mg/kg	0.56	0.44	1	04/28/15 16:00	04/29/15 16:05	7440-36-0	
Arsenic	6.0	mg/kg	1.1	0.56	1	04/28/15 16:00	04/29/15 16:05	7440-38-2	
Barium	97.5	mg/kg	0.56	0.28	1	04/28/15 16:00	04/29/15 16:05	7440-39-3	
Beryllium	0.71	mg/kg	0.11	0.056	1	04/28/15 16:00	04/29/15 16:05	7440-41-7	
Cadmium	0.098J	mg/kg	0.11	0.056	1	04/28/15 16:00	04/29/15 16:05	7440-43-9	
Calcium	366	mg/kg	11.3	5.6	1	04/28/15 16:00	04/29/15 16:05	7440-70-2	
Chromium	12.9	mg/kg	0.56	0.28	1	04/28/15 16:00	04/29/15 16:05	7440-47-3	
Cobalt	10.8	mg/kg	0.56	0.28	1	04/28/15 16:00	04/29/15 16:05	7440-48-4	
Copper	16.2	mg/kg	0.56	0.28	1	04/28/15 16:00	04/29/15 16:05	7440-50-8	
Iron	25500	mg/kg	113	56.5	10	04/28/15 16:00	04/29/15 21:50	7439-89-6	
Lead	14.3	mg/kg	0.56	0.28	1	04/28/15 16:00	04/29/15 16:05	7439-92-1	
Magnesium	1800	mg/kg	11.3	0.28	1	04/28/15 16:00	04/29/15 16:05	7439-95-4	
Manganese	274	mg/kg	0.56	0.28	1	04/28/15 16:00	04/29/15 16:05	7439-96-5	
Nickel	11.4	mg/kg	0.56	0.28	1	04/28/15 16:00	04/29/15 16:05	7440-02-0	
Potassium	ND	mg/kg	565	565	1	04/28/15 16:00	04/29/15 16:05	7440-09-7	
Selenium	ND	mg/kg	1.1	0.56	1	04/28/15 16:00	04/29/15 16:05	7782-49-2	
Silver	ND	mg/kg	0.56	0.28	1	04/28/15 16:00	04/29/15 16:05	7440-22-4	
Sodium	ND	mg/kg	565	282	1	04/28/15 16:00	04/29/15 16:05	7440-23-5	
Thallium	ND	mg/kg	1.1	0.56	1	04/28/15 16:00	04/29/15 16:05	7440-28-0	
Vanadium	27.2	mg/kg	0.56	0.28	1	04/28/15 16:00	04/29/15 16:05	7440-62-2	
Zinc	35.7	mg/kg	1.1	0.56	1	04/28/15 16:00	04/29/15 16:05	7440-66-6	

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

Sample: GSS-605-802-12-2 **Lab ID: 92247031004** Collected: 04/22/15 16:00 Received: 04/24/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.0078	mg/kg	0.0044	0.000088	1	04/25/15 16:35	04/28/15 13:51	7439-97-6	
Analytical Method: ASTM D2974-87									
Percent Moisture	20.9	%	0.10	0.10	1		04/29/15 13:07		

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Sample Project No.: 92247031

Sample: **TRIP BLANK** Lab ID: **92247031005** Collected: 04/22/15 00:00 Received: 04/24/15 09:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level									
Analytical Method: EPA 8260									
Acetone	ND	ug/L	25.0	10.0	1		05/02/15 07:15	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		05/02/15 07:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		05/02/15 07:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/02/15 07:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/02/15 07:15	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/02/15 07:15	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		05/02/15 07:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/02/15 07:15	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/02/15 07:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/02/15 07:15	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/02/15 07:15	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/02/15 07:15	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/02/15 07:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		05/02/15 07:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		05/02/15 07:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		05/02/15 07:15	96-12-8	L3
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/02/15 07:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/02/15 07:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/02/15 07:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/02/15 07:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		05/02/15 07:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/02/15 07:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		05/02/15 07:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/02/15 07:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/02/15 07:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/02/15 07:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/02/15 07:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/02/15 07:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/02/15 07:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		05/02/15 07:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		05/02/15 07:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		05/02/15 07:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/02/15 07:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/02/15 07:15	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		05/02/15 07:15	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/02/15 07:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		05/02/15 07:15	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/02/15 07:15	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		05/02/15 07:15	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/02/15 07:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/02/15 07:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		05/02/15 07:15	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		05/02/15 07:15	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		05/02/15 07:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/02/15 07:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/02/15 07:15	79-34-5	

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

Sample: TRIP BLANK **Lab ID: 92247031005** Collected: 04/22/15 00:00 Received: 04/24/15 09:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level									
Analytical Method: EPA 8260									
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/02/15 07:15	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/02/15 07:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		05/02/15 07:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		05/02/15 07:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/02/15 07:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/02/15 07:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/02/15 07:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/02/15 07:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/02/15 07:15	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/02/15 07:15	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/02/15 07:15	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/02/15 07:15	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/02/15 07:15	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		05/02/15 07:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		05/02/15 07:15	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		05/02/15 07:15	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/02/15 07:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

QC Batch: GCV/9284 Analysis Method: EPA 8015 Modified
 QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
 Associated Lab Samples: 92247031001, 92247031002, 92247031003, 92247031004

METHOD BLANK: 1448088 Matrix: Solid
 Associated Lab Samples: 92247031001, 92247031002, 92247031003, 92247031004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	05/01/15 12:43	
4-Bromofluorobenzene (S)	%	112	70-167	05/01/15 12:43	

LABORATORY CONTROL SAMPLE: 1448089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	50	61.3	123	70-165	
4-Bromofluorobenzene (S)	%			109	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1448090 1448091

Parameter	Units	92246998002		1448090		1448091		% Rec Limits	RPD	Max RPD	Qual		
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec	MSD % Rec
Gas Range Organics (C6-C10)	mg/kg	ND	ND	47.7	47.7	13.6	23.5	27	48	47-187	54	30	M3,R2
4-Bromofluorobenzene (S)	%							113	113	70-167			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1
Pace Project No.: 92247031

QC Batch: MERP/7774 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 92247031001, 92247031002, 92247031003, 92247031004

METHOD BLANK: 1443652 Matrix: Solid
Associated Lab Samples: 92247031001, 92247031002, 92247031003, 92247031004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	0.0021J	0.0050	04/28/15 13:06	

LABORATORY CONTROL SAMPLE: 1443653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.070	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1443654 1443655

Parameter	Units	92246759001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury	mg/kg	0.40	.067	.059	0.61	0.52	318	214	75-125	15	20	M6

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

QC Batch: MPRP/18359 Analysis Method: EPA 6010
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET
 Associated Lab Samples: 92247031001, 92247031002, 92247031003, 92247031004

METHOD BLANK: 1444919 Matrix: Solid
 Associated Lab Samples: 92247031001, 92247031002, 92247031003, 92247031004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	ND	10.0	04/29/15 16:46	
Antimony	mg/kg	ND	0.50	04/29/15 16:46	
Arsenic	mg/kg	ND	1.0	04/29/15 16:46	
Barium	mg/kg	ND	0.50	04/29/15 16:46	
Beryllium	mg/kg	ND	0.10	04/29/15 16:46	
Cadmium	mg/kg	ND	0.10	04/29/15 16:46	
Calcium	mg/kg	ND	10.0	04/29/15 16:46	
Chromium	mg/kg	ND	0.50	04/29/15 16:46	
Cobalt	mg/kg	ND	0.50	04/29/15 16:46	
Copper	mg/kg	ND	0.50	04/29/15 16:46	
Iron	mg/kg	ND	10.0	04/29/15 16:46	
Lead	mg/kg	ND	0.50	04/29/15 16:46	
Magnesium	mg/kg	0.45J	10.0	04/29/15 16:46	
Manganese	mg/kg	0.31J	0.50	04/29/15 16:46	
Nickel	mg/kg	ND	0.50	04/29/15 16:46	
Potassium	mg/kg	ND	500	04/29/15 16:46	
Selenium	mg/kg	ND	1.0	04/29/15 16:46	
Silver	mg/kg	ND	0.50	04/29/15 16:46	
Sodium	mg/kg	ND	500	04/29/15 16:46	
Thallium	mg/kg	ND	1.0	04/29/15 16:46	
Vanadium	mg/kg	ND	0.50	04/29/15 16:46	
Zinc	mg/kg	ND	1.0	04/29/15 16:46	

LABORATORY CONTROL SAMPLE: 1444920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	500	466	93	80-120	
Antimony	mg/kg	50	48.8	98	80-120	
Arsenic	mg/kg	50	46.4	93	80-120	
Barium	mg/kg	50	46.7	93	80-120	
Beryllium	mg/kg	50	46.3	93	80-120	
Cadmium	mg/kg	50	47.3	95	80-120	
Calcium	mg/kg	500	456	91	80-120	
Chromium	mg/kg	50	46.1	92	80-120	
Cobalt	mg/kg	50	47.2	94	80-120	
Copper	mg/kg	50	47.7	95	80-120	
Iron	mg/kg	500	463	93	80-120	
Lead	mg/kg	50	47.0	94	80-120	
Magnesium	mg/kg	500	456	91	80-120	
Manganese	mg/kg	50	45.5	91	80-120	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

LABORATORY CONTROL SAMPLE: 1444920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nickel	mg/kg	50	46.3	93	80-120	
Potassium	mg/kg	500	ND	94	80-120	
Selenium	mg/kg	50	47.2	94	80-120	
Silver	mg/kg	25	23.5	94	80-120	
Sodium	mg/kg	500	467J	93	80-120	
Thallium	mg/kg	50	46.5	93	80-120	
Vanadium	mg/kg	50	46.0	92	80-120	
Zinc	mg/kg	50	45.9	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1444921 1444922

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result								
Aluminum	mg/kg	3910	269	253	5120	2910	452	-396	75-125	55	20	M1,R1	
Antimony	mg/kg	ND	26.9	25.3	14.0	12.9	51	50	75-125	8	20	M1	
Arsenic	mg/kg	25.8	26.9	25.3	40.2	36.0	54	40	75-125	11	20	M1	
Barium	mg/kg	89.4	26.9	25.3	377	45.3	1068	-175	75-125	157	20	M1,R1	
Beryllium	mg/kg	0.89	26.9	25.3	24.0	22.6	86	86	75-125	6	20		
Cadmium	mg/kg	0.11	26.9	25.3	24.1	22.8	89	90	75-125	6	20		
Calcium	mg/kg	2060	269	253	1910	1250	-59	-323	75-125	42	20	M1,R1	
Chromium	mg/kg	2.3	26.9	25.3	26.5	23.6	90	84	75-125	11	20		
Cobalt	mg/kg	0.62	26.9	25.3	33.5	22.9	122	88	75-125	38	20	R1	
Copper	mg/kg	5.5	26.9	25.3	35.6	28.1	112	89	75-125	24	20	R1	
Iron	mg/kg	5160	269	253	4720	3100	-161	-816	75-125	42	20	M1,R1	
Lead	mg/kg	5.3	26.9	25.3	28.8	26.2	87	83	75-125	10	20		
Magnesium	mg/kg	833	269	253	1040	706	77	-50	75-125	38	20	M1,R1	
Manganese	mg/kg	17.5	26.9	25.3	1170	31.1	4305	54	75-125	190	20	M1,R1	
Nickel	mg/kg	3.3	26.9	25.3	29.4	23.9	97	81	75-125	21	20	R1	
Potassium	mg/kg	943	269	253	1150	775	78	-67	75-125	39	20	M1,R1	
Selenium	mg/kg	ND	26.9	25.3	22.9	22.2	85	88	75-125	3	20		
Silver	mg/kg	ND	13.4	12.6	12.0	11.3	89	90	75-125	6	20		
Sodium	mg/kg	720	269	253	903	646	68	-29	75-125	33	20	M1,R1	
Thallium	mg/kg	ND	26.9	25.3	21.6	20.7	80	82	75-125	4	20		
Vanadium	mg/kg	8.5	26.9	25.3	43.6	28.9	130	81	75-125	41	20	M1,R1	
Zinc	mg/kg	17.7	26.9	25.3	46.0	33.9	105	64	75-125	30	20	M1,R1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

QC Batch: MSV/31477

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92247031005

METHOD BLANK: 1448686

Matrix: Water

Associated Lab Samples: 92247031005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/02/15 02:59	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/02/15 02:59	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/02/15 02:59	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/02/15 02:59	
1,1-Dichloroethane	ug/L	ND	1.0	05/02/15 02:59	
1,1-Dichloroethene	ug/L	ND	1.0	05/02/15 02:59	
1,1-Dichloropropene	ug/L	ND	1.0	05/02/15 02:59	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/02/15 02:59	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/02/15 02:59	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/02/15 02:59	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/02/15 02:59	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/02/15 02:59	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/02/15 02:59	
1,2-Dichloroethane	ug/L	ND	1.0	05/02/15 02:59	
1,2-Dichloropropane	ug/L	ND	1.0	05/02/15 02:59	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/02/15 02:59	
1,3-Dichloropropane	ug/L	ND	1.0	05/02/15 02:59	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/02/15 02:59	
2,2-Dichloropropane	ug/L	ND	1.0	05/02/15 02:59	
2-Butanone (MEK)	ug/L	ND	5.0	05/02/15 02:59	
2-Chlorotoluene	ug/L	ND	1.0	05/02/15 02:59	
2-Hexanone	ug/L	ND	5.0	05/02/15 02:59	
4-Chlorotoluene	ug/L	ND	1.0	05/02/15 02:59	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/02/15 02:59	
Acetone	ug/L	ND	25.0	05/02/15 02:59	
Benzene	ug/L	ND	1.0	05/02/15 02:59	
Bromobenzene	ug/L	ND	1.0	05/02/15 02:59	
Bromochloromethane	ug/L	ND	1.0	05/02/15 02:59	
Bromodichloromethane	ug/L	ND	1.0	05/02/15 02:59	
Bromoform	ug/L	ND	1.0	05/02/15 02:59	
Bromomethane	ug/L	ND	2.0	05/02/15 02:59	
Carbon tetrachloride	ug/L	ND	1.0	05/02/15 02:59	
Chlorobenzene	ug/L	ND	1.0	05/02/15 02:59	
Chloroethane	ug/L	ND	1.0	05/02/15 02:59	
Chloroform	ug/L	ND	1.0	05/02/15 02:59	
Chloromethane	ug/L	ND	1.0	05/02/15 02:59	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/02/15 02:59	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/02/15 02:59	
Dibromochloromethane	ug/L	ND	1.0	05/02/15 02:59	
Dibromomethane	ug/L	ND	1.0	05/02/15 02:59	
Dichlorodifluoromethane	ug/L	ND	1.0	05/02/15 02:59	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

METHOD BLANK: 1448686

Matrix: Water

Associated Lab Samples: 92247031005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	05/02/15 02:59	
Ethylbenzene	ug/L	ND	1.0	05/02/15 02:59	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/02/15 02:59	
m&p-Xylene	ug/L	ND	2.0	05/02/15 02:59	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/02/15 02:59	
Methylene Chloride	ug/L	ND	2.0	05/02/15 02:59	
Naphthalene	ug/L	ND	1.0	05/02/15 02:59	
o-Xylene	ug/L	ND	1.0	05/02/15 02:59	
p-Isopropyltoluene	ug/L	ND	1.0	05/02/15 02:59	
Styrene	ug/L	ND	1.0	05/02/15 02:59	
Tetrachloroethene	ug/L	ND	1.0	05/02/15 02:59	
Toluene	ug/L	ND	1.0	05/02/15 02:59	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/02/15 02:59	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/02/15 02:59	
Trichloroethene	ug/L	ND	1.0	05/02/15 02:59	
Trichlorofluoromethane	ug/L	ND	1.0	05/02/15 02:59	
Vinyl acetate	ug/L	ND	2.0	05/02/15 02:59	
Vinyl chloride	ug/L	ND	1.0	05/02/15 02:59	
Xylene (Total)	ug/L	ND	2.0	05/02/15 02:59	
1,2-Dichloroethane-d4 (S)	%	114	70-130	05/02/15 02:59	
4-Bromofluorobenzene (S)	%	97	70-130	05/02/15 02:59	
Toluene-d8 (S)	%	104	70-130	05/02/15 02:59	

LABORATORY CONTROL SAMPLE: 1448687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.1	106	70-130	
1,1,1-Trichloroethane	ug/L	50	49.5	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	56.2	112	70-130	
1,1,2-Trichloroethane	ug/L	50	49.8	100	70-130	
1,1-Dichloroethane	ug/L	50	52.2	104	70-130	
1,1-Dichloroethene	ug/L	50	47.3	95	70-132	
1,1-Dichloropropene	ug/L	50	55.3	111	70-130	
1,2,3-Trichlorobenzene	ug/L	50	57.6	115	70-135	
1,2,3-Trichloropropane	ug/L	50	55.9	112	70-130	
1,2,4-Trichlorobenzene	ug/L	50	56.6	113	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	65.4	131	70-130	LO
1,2-Dibromoethane (EDB)	ug/L	50	56.8	114	70-130	
1,2-Dichlorobenzene	ug/L	50	56.7	113	70-130	
1,2-Dichloroethane	ug/L	50	50.8	102	70-130	
1,2-Dichloropropane	ug/L	50	51.7	103	70-130	
1,3-Dichlorobenzene	ug/L	50	56.5	113	70-130	
1,3-Dichloropropane	ug/L	50	56.7	113	70-130	
1,4-Dichlorobenzene	ug/L	50	54.1	108	70-130	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

LABORATORY CONTROL SAMPLE: 1448687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	47.1	94	58-145	
2-Butanone (MEK)	ug/L	100	119	119	70-145	
2-Chlorotoluene	ug/L	50	58.0	116	70-130	
2-Hexanone	ug/L	100	134	134	70-144	
4-Chlorotoluene	ug/L	50	58.2	116	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	70-140	
Acetone	ug/L	100	117	117	50-175	
Benzene	ug/L	50	49.2	98	70-130	
Bromobenzene	ug/L	50	61.8	124	70-130	
Bromochloromethane	ug/L	50	56.7	113	70-130	
Bromodichloromethane	ug/L	50	44.6	89	70-130	
Bromoform	ug/L	50	44.2	88	70-130	
Bromomethane	ug/L	50	46.1	92	54-130	
Carbon tetrachloride	ug/L	50	48.2	96	70-132	
Chlorobenzene	ug/L	50	51.7	103	70-130	
Chloroethane	ug/L	50	44.6	89	64-134	
Chloroform	ug/L	50	47.3	95	70-130	
Chloromethane	ug/L	50	48.3	97	64-130	
cis-1,2-Dichloroethene	ug/L	50	53.8	108	70-131	
cis-1,3-Dichloropropene	ug/L	50	51.7	103	70-130	
Dibromochloromethane	ug/L	50	49.9	100	70-130	
Dibromomethane	ug/L	50	44.1	88	70-131	
Dichlorodifluoromethane	ug/L	50	42.1	84	56-130	
Diisopropyl ether	ug/L	50	58.3	117	70-130	
Ethylbenzene	ug/L	50	52.9	106	70-130	
Hexachloro-1,3-butadiene	ug/L	50	52.3	105	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	51.9	104	70-130	
Methylene Chloride	ug/L	50	59.3	119	63-130	
Naphthalene	ug/L	50	63.9	128	70-138	
o-Xylene	ug/L	50	53.6	107	70-130	
p-Isopropyltoluene	ug/L	50	58.5	117	70-130	
Styrene	ug/L	50	53.9	108	70-130	
Tetrachloroethene	ug/L	50	47.2	94	70-130	
Toluene	ug/L	50	47.1	94	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.0	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	70-132	
Trichloroethene	ug/L	50	45.4	91	70-130	
Trichlorofluoromethane	ug/L	50	43.8	88	62-133	
Vinyl acetate	ug/L	100	123	123	66-157	
Vinyl chloride	ug/L	50	50.1	100	50-150	
Xylene (Total)	ug/L	150	160	107	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			90	70-130	
Toluene-d8 (S)	%			100	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

QC Batch: OEXT/34668 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 92247031001, 92247031002, 92247031003

METHOD BLANK: 1446671 Matrix: Solid

Associated Lab Samples: 92247031001, 92247031002, 92247031003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	5.0	05/01/15 06:50	
n-Pentacosane (S)	%	80	41-119	05/01/15 06:50	

LABORATORY CONTROL SAMPLE: 1446672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	66.7	56.2	84	49-113	
n-Pentacosane (S)	%			84	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1446673 1446674

Parameter	Units	92246841001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Diesel Range Organics(C10-C28)	mg/kg	59100	89.6	89.6	52400	48000	-7445	-12321	10-146	9	30	M3,P3	
n-Pentacosane (S)	%						617	600	41-119			S5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

QC Batch:	OEXT/34669	Analysis Method:	EPA 8015 Modified
QC Batch Method:	EPA 3546	Analysis Description:	8015 Solid GCSV
Associated Lab Samples:	92247031004		

METHOD BLANK: 1446675 Matrix: Solid

Associated Lab Samples: 92247031004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	5.0	04/30/15 12:29	
n-Pentacosane (S)	%	86	41-119	04/30/15 12:29	

LABORATORY CONTROL SAMPLE: 1446676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	66.7	51.7	78	49-113	
n-Pentacosane (S)	%			84	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1446677 1446678

Parameter	Units	92247031004		1446677		1446678		% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Diesel Range Organics(C10-C28)	mg/kg	25.2	84.4	84.4	58.2	64.7	39	47	10-146	11	30	
n-Pentacosane (S)	%						72	78	41-119			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

QC Batch: OEXT/34639 Analysis Method: EPA 8082
 QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
 Associated Lab Samples: 92247031001, 92247031002, 92247031003, 92247031004

METHOD BLANK: 1445648 Matrix: Solid
 Associated Lab Samples: 92247031001, 92247031002, 92247031003, 92247031004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	04/30/15 06:00	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	04/30/15 06:00	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	04/30/15 06:00	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	04/30/15 06:00	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	04/30/15 06:00	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	04/30/15 06:00	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	04/30/15 06:00	
Decachlorobiphenyl (S)	%	94	21-132	04/30/15 06:00	

LABORATORY CONTROL SAMPLE & LCSD: 1445649

1445651

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	124	134	74	80	31-120	8	30	
PCB-1260 (Aroclor 1260)	ug/kg	167	137	150	82	90	32-120	9	30	
Decachlorobiphenyl (S)	%				102	106	21-132			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

QC Batch: PMST/7788

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 92247031001, 92247031002, 92247031003, 92247031004

SAMPLE DUPLICATE: 1445230

Parameter	Units	92247031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	30.4	29.5	3	25	

SAMPLE DUPLICATE: 1445231

Parameter	Units	92247219006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.0	23.4	7	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247031

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

P3 Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.

R1 RPD value was outside control limits.

R2 RPD value was outside control limits due to matrix interference

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Buzzard Point, Washington DC R1
Pace Project No.: 92247031

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92247031001	GTW-605-802-1-1	EPA 3546	OEXT/34668	EPA 8015 Modified	GCSV/21148
92247031002	GTW-605-802-2-1	EPA 3546	OEXT/34668	EPA 8015 Modified	GCSV/21148
92247031003	GSS-605-802-11-1	EPA 3546	OEXT/34668	EPA 8015 Modified	GCSV/21148
92247031004	GSS-605-802-12-2	EPA 3546	OEXT/34669	EPA 8015 Modified	GCSV/21138
92247031001	GTW-605-802-1-1	EPA 3546	OEXT/34639	EPA 8082	GCSV/21133
92247031002	GTW-605-802-2-1	EPA 3546	OEXT/34639	EPA 8082	GCSV/21133
92247031003	GSS-605-802-11-1	EPA 3546	OEXT/34639	EPA 8082	GCSV/21133
92247031004	GSS-605-802-12-2	EPA 3546	OEXT/34639	EPA 8082	GCSV/21133
92247031001	GTW-605-802-1-1	EPA 5035A/5030B	GCV/9284	EPA 8015 Modified	GCV/9287
92247031002	GTW-605-802-2-1	EPA 5035A/5030B	GCV/9284	EPA 8015 Modified	GCV/9287
92247031003	GSS-605-802-11-1	EPA 5035A/5030B	GCV/9284	EPA 8015 Modified	GCV/9287
92247031004	GSS-605-802-12-2	EPA 5035A/5030B	GCV/9284	EPA 8015 Modified	GCV/9287
92247031001	GTW-605-802-1-1	EPA 3050	MPRP/18359	EPA 6010	ICP/16481
92247031002	GTW-605-802-2-1	EPA 3050	MPRP/18359	EPA 6010	ICP/16481
92247031003	GSS-605-802-11-1	EPA 3050	MPRP/18359	EPA 6010	ICP/16481
92247031004	GSS-605-802-12-2	EPA 3050	MPRP/18359	EPA 6010	ICP/16481
92247031005	TRIP BLANK	EPA 8260	MSV/31477		
92247031001	GTW-605-802-1-1	ASTM D2974-87	PMST/7788		
92247031002	GTW-605-802-2-1	ASTM D2974-87	PMST/7788		
92247031003	GSS-605-802-11-1	ASTM D2974-87	PMST/7788		
92247031004	GSS-605-802-12-2	ASTM D2974-87	PMST/7788		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt (SCUR)
 Document Number:
F-CHR-CS-003-rev.15

Page 1 of 2
 Issuing Authority:
 Pace Huntersville Quality Office

Client Name: Haley & Aldrich

Carrier: Fed Ex UPS USPS Client Commercial Pace Other _____

Warranty Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used: IR Gun T1401 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 5.3 °C

Biological Tissue is Frozen: Yes No N/A

Date and initials of person examining contents: AP 4-24-15

	Yes	No	N/A	Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4.
Samples Arrived within Hold Time:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Push Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
Correct Containers Used:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9.
Pace Containers Used:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11.
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.
-Includes date/time/ID/Analysis Matrix:				
If containers needing preservation have been checked.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
If containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Exceptions: VQA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Leadspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

SCURF Review: (NS) Date: 042415
 SRF Review: (NS) Date: 042715

Please label here
WO# : 92247031



Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Company: Haley & Aldrich, Inc		Report To: Dave Schoenwolf		Attention:	
Address: 7926 Jones Branch Pr. McLean, VA 22102		Copy To:		Company Name:	
Email To: dschoenwolf@haleyaldrich.com		Purchase Order No.:		REGULATORY AGENCY	
Phone:	Fax:	Project Name: Buzzard Point GW		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
Requested Due Date/TAT: Standard TAT		Project Number:		Pace Quote Reference: Pace Project Manager: nicole.benjamin@pacelabs.com Pace Profile #: 7362-113	
				Site Location STATE: _____	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)																	
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol				Other	TPH - GPO	TPH - DPO	TAL METALS	PCBS by GC/MS												
					DATE	TIME	DATE	TIME																													
1	GTW-605-802-1-1	SL	SL	G	04/22	10:57			6	X							X																				
2	GTW-605-802-1-1	SL	SL	G	04/22	10:57			1	X							X																				
3	GTW-605-802-1-1	SL	SL	G	04/22	10:57			1	X							X																				
4	GTW-605-802-1-1	SL	SL	G	04/22	10:57			1	X							X																				
5	GTW-605-802-2-1	SL	SL	G	04/22	09:15			6	X							X																				
6	GTW-605-802-2-1	SL	SL	G	04/22	09:15			1	X							X																				
7	GTW-605-802-2-1	SL	SL	G	04/22	09:15			1	X							X																				
8	GTW-605-802-2-1	SL	SL	G	04/22	09:15			1	X							X																				
9	GSS-605-802-11-1	SL	SL	G	04/22	08:19			6	X							X																				
10	GSS-605-802-11-1	SL	SL	G	04/22	08:19			1	X							X																				
11	GSS-605-802-11-2	SL	SL	G	04/22	08:19			1	X							X																				
12	GSS-605-802-11-3	SL	SL	G	04/22	08:19			1	X							X																				

92247031
Pace Project No./ Lab I.D.



ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	CHRISTIAN TSCHUBEL	04/22	18:00	FEDEX	04/22	19:00	
				ANNY POMPAN	4-29-15	9:45	5.3 ✓ ✓ ✓

ORIGINAL	SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>Christian Tschubel</u> SIGNATURE of SAMPLER: <u>Christian Tschubel</u>	DATE Signed (MM/DD/YY): <u>04/22/15</u>	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
----------	-----------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------	------------	-----------------------	-----------------------------	----------------------

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Haley & Aldrich, Inc.	Report To: Dave Schoenwolf	Attention:	
Address: 7926 Jones Branch Dr Mc Lean, VA 22102	Copy To:	Company Name:	
Email: dschoenwolf@haleyaldrich.com	Purchase Order #:	Address:	Regulatory Agency
Phone: NONE Fax	Project Name: Buzzard Point GW	Pace Quote:	State / Location
Requested Due Date:	Project #:	Pace Project Manager: nicole.benjamin@pacelabs.com	DC
		Pace Profile #:	

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique</small>	MATRIX CODE <small>(see valid codes to left)</small>	SAMPLE TYPE <small>(G=GRAB C=COMP)</small>	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Analyses Test <small>Y/N</small>	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)							
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	DRO by 8015		GRO 8015	VOC by 8260	Trip Blank-HCL	SVOC 8270	Metals by 6020-HGRMS	Metals by 6010	PB's by 8082											
				DATE	TIME	DATE	TIME																														
1	GSS-605-802-12-1	SL		04/22	16:00	04/22		6	X											X	X															92247031	
2	GSS-605-802-12-1	SL		04/22	16:00			1	X											X															604		
3	GSS-605-802-12-2	SL		04/22	16:00			1	X														X														
4	GSS-605-802-12-3	SL		04/22	16:00			1	X														X														
5	TRIP BLANK							1																													005
6-12																																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	CHRISTIAN TSCHUBELN	04/22	16:00	FEDEX JUNY P... P... P...	04/22	19:00	V V V
					04/22	09:45	5:3 V

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Christian Tschubeln				
SIGNATURE of SAMPLER:	<i>Christian Tschubeln</i>				
		DATE Signed:	04/22/19		



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

1906572

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Haley & Aldrich, Inc		Report To: Dave Schoenwolf		Attention:	
Address: 7926 Jones Branch Dr.		Copy To:		Company Name:	
McLean, VA 22102				Address:	
Email To: dschoenwolf@haleyaldrich.com		Purchase Order No.:		Pace Quote Reference:	
Phone:		Project Name: Buzzard Point GW		Pace Project Manager: nicole.benjamin@paceabs.com	
Requested Due Date/TAT: Standard TAT		Project Number:		Pace Profile #: 7362-113	
				REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER	
				<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
				Site Location	
				STATE: _____	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)					
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol				Other	TPH - GRD	TPH - DRD	TAL METALS	PCBs by EUSEC
					DATE	TIME	DATE	TIME																	
1	GTW-605-802-1-1		SL		04/22	10:57			6	X						X	X								
2	GTW-605-802-1-1		SL		04/22	10:57			1	X						X									
3	GTW-605-802-1-1		SL		04/22	10:57			1	X						X									
4	GTW-605-802-1-1		SL		04/22	10:57			1	X						X									
5	GTW-605-802-2-1		SL		04/22	09:15			6	X				X		X									
6	GTW-605-802-2-1		SL		04/22	09:15			1	X						X									
7	GTW-605-802-2-1		SL		04/22	09:15			1	X						X									
8	GTW-605-802-2-1		SL		04/22	09:15			1	X						X									
9	GSS-605-802-11-1		SL		04/22	08:19			6	X				X		X									
10	GSS-605-802-11-1		SL		04/22	08:19			1	X						X									
11	GSS-605-802-11-1		SL		04/22	08:19			1	X						X									
12	GSS-605-802-11-1		SL		04/22	08:19			1	X						X									

92247031
Pace Project No./ Lab I.D.

CO1
CO2
CO3

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	CHRISTIAN TSCHUBEL	04/22	18:00	FEDEX	04/22	19:00	
				OMY Pw/Pw	4-24-15	9:15	5.3 ✓ N ✓

OK 4/20/15

ORIGINAL

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Christian Tschubel					
SIGNATURE of SAMPLER:	<i>Christian Tschubel</i>	DATE Signed (MM/DD/YY): 04/22/15				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

May 29, 2015

Dana Kennard
Haley & Aldrich, Inc

RE: Project: Buzzard Point, Washington DC R2
Pace Project No.: 92247494

Dear Dana Kennard:

Enclosed are the analytical results for sample(s) received by the laboratory on April 29, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This report was revised to report down to the MDL for all parameters and modify sample IDs to match the update Chain of Custody, per client request.

Insufficient sample volume was provided to properly analyze for VOCs, preserved aliquots were consumed for GRO analysis.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Nicole Benjamin
nicole.benjamin@pacelabs.com
Project Manager



REPORT OF LABORATORY ANALYSIS

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May 29, 2015
Page 2

Enclosures

cc: Karin Holland
Pam Minor



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CERTIFICATIONS

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92247494001	GTW-605-802-7-2	Water	04/27/15 16:52	04/29/15 09:30
92247494002	GTW-605-802-2-3	Water	04/27/15 13:25	04/29/15 09:30
92247494003	TRIP BLANK	Water	04/27/15 00:00	04/29/15 09:30

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SAMPLE ANALYTE COUNT

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92247494001	GTW-605-802-7-2	EPA 8015 Modified	CMI	2	PASI-C
		EPA 5030/8015 Mod.	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8270	RES	74	PASI-C
92247494002	GTW-605-802-2-3	EPA 8015 Modified	CMI	2	PASI-C
		EPA 5030/8015 Mod.	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8270	RES	74	PASI-C
92247494003	TRIP BLANK	EPA 8260	SNP	63	PASI-C

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SUMMARY OF DETECTION

Project: Buzzard Point, Washington DC R2
Pace Project No.: 92247494

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92247494001	GTW-605-802-7-2					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	0.11J	mg/L	0.50	05/08/15 00:04	
EPA 6010	Aluminum	68.7J	ug/L	100	05/01/15 15:27	
EPA 6010	Barium	91.2	ug/L	5.0	05/01/15 15:27	
EPA 6010	Calcium	69000	ug/L	100	05/01/15 15:27	
EPA 6010	Cobalt	18.6	ug/L	5.0	05/01/15 15:27	
EPA 6010	Copper	3.6J	ug/L	5.0	05/01/15 15:27	
EPA 6010	Iron	944	ug/L	50.0	05/01/15 15:27	
EPA 6010	Lead	2.7J	ug/L	5.0	05/01/15 15:27	
EPA 6010	Magnesium	33800	ug/L	100	05/01/15 15:27	
EPA 6010	Manganese	2840	ug/L	5.0	05/01/15 15:27	
EPA 6010	Nickel	14.0	ug/L	5.0	05/01/15 15:27	
EPA 6010	Potassium	3710J	ug/L	5000	05/01/15 15:27	
EPA 6010	Sodium	50900	ug/L	5000	05/01/15 15:27	
EPA 6010	Zinc	29.2	ug/L	10.0	05/01/15 15:27	
92247494002	GTW-605-802-2-3					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	0.12J	mg/L	0.50	05/08/15 00:28	
EPA 6010	Aluminum	3450	ug/L	100	05/01/15 15:30	
EPA 6010	Antimony	7.1	ug/L	5.0	05/01/15 15:30	
EPA 6010	Barium	25.5	ug/L	5.0	05/01/15 15:30	
EPA 6010	Beryllium	0.33J	ug/L	1.0	05/01/15 15:30	
EPA 6010	Cadmium	0.55J	ug/L	1.0	05/01/15 15:30	
EPA 6010	Calcium	42600	ug/L	100	05/01/15 15:30	
EPA 6010	Chromium	8.6	ug/L	5.0	05/01/15 15:30	
EPA 6010	Cobalt	74.7	ug/L	5.0	05/01/15 15:30	
EPA 6010	Copper	17.6	ug/L	5.0	05/01/15 15:30	
EPA 6010	Iron	7390	ug/L	50.0	05/01/15 15:30	
EPA 6010	Lead	11.5	ug/L	5.0	05/01/15 15:30	
EPA 6010	Magnesium	41900	ug/L	100	05/01/15 15:30	
EPA 6010	Manganese	4420	ug/L	5.0	05/01/15 15:30	
EPA 6010	Nickel	29.5	ug/L	5.0	05/01/15 15:30	
EPA 6010	Sodium	765000	ug/L	100000	05/04/15 13:11	
EPA 6010	Vanadium	12.1	ug/L	5.0	05/01/15 15:30	
EPA 6010	Zinc	51.0	ug/L	10.0	05/01/15 15:30	
92247494003	TRIP BLANK					
EPA 8260	Acetone	11.9J	ug/L	25.0	05/06/15 01:38	
EPA 8260	Methylene Chloride	1.8J	ug/L	2.0	05/06/15 01:38	

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R2
Pace Project No.: 92247494

Sample: GTW-605-802-7-2 Lab ID: 92247494001 Collected: 04/27/15 16:52 Received: 04/29/15 09:30 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510									
Diesel Range Organics(C10-C28)	0.11J	mg/L	0.50	0.10	1	05/04/15 16:00	05/08/15 00:04		
Surrogates									
n-Pentacosane (S)	86	%	48-110		1	05/04/15 16:00	05/08/15 00:04	629-99-2	
Gasoline Range Organics Analytical Method: EPA 5030/8015 Mod.									
Gas Range Organics (C6-C10)	ND	mg/L	0.080	0.016	1		05/10/15 20:40		
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-145		1		05/10/15 20:40	460-00-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Aluminum	68.7J	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:27	7429-90-5	
Antimony	ND	ug/L	5.0	3.9	1	04/30/15 13:40	05/01/15 15:27	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:27	7440-38-2	
Barium	91.2	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:27	7440-39-3	
Beryllium	ND	ug/L	1.0	0.050	1	04/30/15 13:40	05/01/15 15:27	7440-41-7	
Cadmium	ND	ug/L	1.0	0.050	1	04/30/15 13:40	05/01/15 15:27	7440-43-9	
Calcium	69000	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:27	7440-70-2	
Chromium	ND	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:27	7440-47-3	
Cobalt	18.6	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:27	7440-48-4	
Copper	3.6J	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:27	7440-50-8	
Iron	944	ug/L	50.0	25.0	1	04/30/15 13:40	05/01/15 15:27	7439-89-6	
Lead	2.7J	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:27	7439-92-1	
Magnesium	33800	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:27	7439-95-4	
Manganese	2840	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:27	7439-96-5	
Nickel	14.0	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:27	7440-02-0	
Potassium	3710J	ug/L	5000	2500	1	04/30/15 13:40	05/01/15 15:27	7440-09-7	
Selenium	ND	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:27	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:27	7440-22-4	
Sodium	50900	ug/L	5000	2500	1	04/30/15 13:40	05/01/15 15:27	7440-23-5	
Thallium	ND	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:27	7440-28-0	
Vanadium	ND	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:27	7440-62-2	
Zinc	29.2	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:27	7440-66-6	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	ND	ug/L	0.20	0.10	1	04/30/15 18:30	05/01/15 15:30	7439-97-6	
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 16:43	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.99	1	05/04/15 17:00	05/06/15 16:43	208-96-8	
Aniline	ND	ug/L	10.0	0.80	1	05/04/15 17:00	05/06/15 16:43	62-53-3	
Anthracene	ND	ug/L	10.0	0.47	1	05/04/15 17:00	05/06/15 16:43	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.47	1	05/04/15 17:00	05/06/15 16:43	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.57	1	05/04/15 17:00	05/06/15 16:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.44	1	05/04/15 17:00	05/06/15 16:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.45	1	05/04/15 17:00	05/06/15 16:43	191-24-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

Sample: GTW-605-802-7-2 **Lab ID: 92247494001** Collected: 04/27/15 16:52 Received: 04/29/15 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Benzo(k)fluoranthene	ND	ug/L	10.0	0.53	1	05/04/15 17:00	05/06/15 16:43	207-08-9	
Benzoic Acid	ND	ug/L	50.0	4.9	1	05/04/15 17:00	05/06/15 16:43	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.1	1	05/04/15 17:00	05/06/15 16:43	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 16:43	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.48	1	05/04/15 17:00	05/06/15 16:43	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.0	1	05/04/15 17:00	05/06/15 16:43	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1.6	1	05/04/15 17:00	05/06/15 16:43	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	05/04/15 17:00	05/06/15 16:43	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.89	1	05/04/15 17:00	05/06/15 16:43	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.86	1	05/04/15 17:00	05/06/15 16:43	108-60-1	L3
2-Chloronaphthalene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 16:43	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 16:43	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 16:43	7005-72-3	
Chrysene	ND	ug/L	10.0	0.49	1	05/04/15 17:00	05/06/15 16:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.49	1	05/04/15 17:00	05/06/15 16:43	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 16:43	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.71	1	05/04/15 17:00	05/06/15 16:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.78	1	05/04/15 17:00	05/06/15 16:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.81	1	05/04/15 17:00	05/06/15 16:43	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	0.69	1	05/04/15 17:00	05/06/15 16:43	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	0.85	1	05/04/15 17:00	05/06/15 16:43	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.91	1	05/04/15 17:00	05/06/15 16:43	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.96	1	05/04/15 17:00	05/06/15 16:43	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.62	1	05/04/15 17:00	05/06/15 16:43	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.37	1	05/04/15 17:00	05/06/15 16:43	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1.1	1	05/04/15 17:00	05/06/15 16:43	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	2.5	1	05/04/15 17:00	05/06/15 16:43	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.92	1	05/04/15 17:00	05/06/15 16:43	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	2.1	1	05/04/15 17:00	05/06/15 16:43	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.12	1	05/04/15 17:00	05/06/15 16:43	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.49	1	05/04/15 17:00	05/06/15 16:43	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.41	1	05/04/15 17:00	05/06/15 16:43	206-44-0	
Fluorene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 16:43	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.90	1	05/04/15 17:00	05/06/15 16:43	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.76	1	05/04/15 17:00	05/06/15 16:43	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 16:43	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.90	1	05/04/15 17:00	05/06/15 16:43	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.53	1	05/04/15 17:00	05/06/15 16:43	193-39-5	
Isophorone	ND	ug/L	10.0	0.92	1	05/04/15 17:00	05/06/15 16:43	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.92	1	05/04/15 17:00	05/06/15 16:43	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 16:43	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 16:43	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 16:43		
Naphthalene	ND	ug/L	10.0	0.93	1	05/04/15 17:00	05/06/15 16:43	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1.5	1	05/04/15 17:00	05/06/15 16:43	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1.3	1	05/04/15 17:00	05/06/15 16:43	99-09-2	

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

Sample: GTW-605-802-7-2 **Lab ID: 92247494001** Collected: 04/27/15 16:52 Received: 04/29/15 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
4-Nitroaniline	ND	ug/L	20.0	1.6	1	05/04/15 17:00	05/06/15 16:43	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 16:43	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.71	1	05/04/15 17:00	05/06/15 16:43	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	3.9	1	05/04/15 17:00	05/06/15 16:43	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.94	1	05/04/15 17:00	05/06/15 16:43	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.85	1	05/04/15 17:00	05/06/15 16:43	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	0.64	1	05/04/15 17:00	05/06/15 16:43	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	1.2	1	05/04/15 17:00	05/06/15 16:43	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.53	1	05/04/15 17:00	05/06/15 16:43	85-01-8	
Phenol	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 16:43	108-95-2	
Pyrene	ND	ug/L	10.0	0.49	1	05/04/15 17:00	05/06/15 16:43	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.3	1	05/04/15 17:00	05/06/15 16:43	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 16:43	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.85	1	05/04/15 17:00	05/06/15 16:43	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	26	%	21-110		1	05/04/15 17:00	05/06/15 16:43	4165-60-0	
2-Fluorobiphenyl (S)	37	%	27-110		1	05/04/15 17:00	05/06/15 16:43	321-60-8	
Terphenyl-d14 (S)	67	%	31-107		1	05/04/15 17:00	05/06/15 16:43	1718-51-0	
Phenol-d6 (S)	15	%	10-110		1	05/04/15 17:00	05/06/15 16:43	13127-88-3	
2-Fluorophenol (S)	14	%	12-110		1	05/04/15 17:00	05/06/15 16:43	367-12-4	
2,4,6-Tribromophenol (S)	77	%	27-110		1	05/04/15 17:00	05/06/15 16:43	118-79-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R2
Pace Project No.: 92247494

Sample: GTW-605-802-2-3 Lab ID: 92247494002 Collected: 04/27/15 13:25 Received: 04/29/15 09:30 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510									
Diesel Range Organics(C10-C28)	0.12J	mg/L	0.50	0.10	1	05/04/15 16:00	05/08/15 00:28		
Surrogates									
n-Pentacosane (S)	88	%	48-110		1	05/04/15 16:00	05/08/15 00:28	629-99-2	
Gasoline Range Organics Analytical Method: EPA 5030/8015 Mod.									
Gas Range Organics (C6-C10)	ND	mg/L	0.080	0.016	1		05/10/15 21:06		
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-145		1		05/10/15 21:06	460-00-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Aluminum	3450	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:30	7429-90-5	
Antimony	7.1	ug/L	5.0	3.9	1	04/30/15 13:40	05/01/15 15:30	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:30	7440-38-2	
Barium	25.5	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:30	7440-39-3	
Beryllium	0.33J	ug/L	1.0	0.050	1	04/30/15 13:40	05/01/15 15:30	7440-41-7	
Cadmium	0.55J	ug/L	1.0	0.050	1	04/30/15 13:40	05/01/15 15:30	7440-43-9	
Calcium	42600	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:30	7440-70-2	
Chromium	8.6	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:30	7440-47-3	
Cobalt	74.7	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:30	7440-48-4	
Copper	17.6	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:30	7440-50-8	
Iron	7390	ug/L	50.0	25.0	1	04/30/15 13:40	05/01/15 15:30	7439-89-6	
Lead	11.5	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:30	7439-92-1	
Magnesium	41900	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:30	7439-95-4	
Manganese	4420	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:30	7439-96-5	
Nickel	29.5	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:30	7440-02-0	
Potassium	ND	ug/L	5000	2500	1	04/30/15 13:40	05/01/15 15:30	7440-09-7	
Selenium	ND	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:30	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:30	7440-22-4	
Sodium	765000	ug/L	100000	50000	20	04/30/15 13:40	05/04/15 13:11	7440-23-5	
Thallium	ND	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:30	7440-28-0	
Vanadium	12.1	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:30	7440-62-2	
Zinc	51.0	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:30	7440-66-6	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	ND	ug/L	0.20	0.10	1	04/30/15 18:30	05/01/15 15:37	7439-97-6	
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 12:37	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.99	1	05/04/15 17:00	05/06/15 12:37	208-96-8	
Aniline	ND	ug/L	10.0	0.80	1	05/04/15 17:00	05/06/15 12:37	62-53-3	
Anthracene	ND	ug/L	10.0	0.47	1	05/04/15 17:00	05/06/15 12:37	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.47	1	05/04/15 17:00	05/06/15 12:37	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.57	1	05/04/15 17:00	05/06/15 12:37	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.44	1	05/04/15 17:00	05/06/15 12:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.45	1	05/04/15 17:00	05/06/15 12:37	191-24-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

Sample: GTW-605-802-2-3 Lab ID: 92247494002 Collected: 04/27/15 13:25 Received: 04/29/15 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Benzo(k)fluoranthene	ND	ug/L	10.0	0.53	1	05/04/15 17:00	05/06/15 12:37	207-08-9	
Benzoic Acid	ND	ug/L	50.0	4.9	1	05/04/15 17:00	05/06/15 12:37	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.1	1	05/04/15 17:00	05/06/15 12:37	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 12:37	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.48	1	05/04/15 17:00	05/06/15 12:37	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.0	1	05/04/15 17:00	05/06/15 12:37	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1.6	1	05/04/15 17:00	05/06/15 12:37	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	05/04/15 17:00	05/06/15 12:37	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.89	1	05/04/15 17:00	05/06/15 12:37	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.86	1	05/04/15 17:00	05/06/15 12:37	108-60-1	L3
2-Chloronaphthalene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 12:37	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 12:37	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 12:37	7005-72-3	
Chrysene	ND	ug/L	10.0	0.49	1	05/04/15 17:00	05/06/15 12:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.49	1	05/04/15 17:00	05/06/15 12:37	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 12:37	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.71	1	05/04/15 17:00	05/06/15 12:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.78	1	05/04/15 17:00	05/06/15 12:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.81	1	05/04/15 17:00	05/06/15 12:37	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	0.69	1	05/04/15 17:00	05/06/15 12:37	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	0.85	1	05/04/15 17:00	05/06/15 12:37	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.91	1	05/04/15 17:00	05/06/15 12:37	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.96	1	05/04/15 17:00	05/06/15 12:37	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.62	1	05/04/15 17:00	05/06/15 12:37	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.37	1	05/04/15 17:00	05/06/15 12:37	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1.1	1	05/04/15 17:00	05/06/15 12:37	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	2.5	1	05/04/15 17:00	05/06/15 12:37	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.92	1	05/04/15 17:00	05/06/15 12:37	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	2.1	1	05/04/15 17:00	05/06/15 12:37	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.12	1	05/04/15 17:00	05/06/15 12:37	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.49	1	05/04/15 17:00	05/06/15 12:37	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.41	1	05/04/15 17:00	05/06/15 12:37	206-44-0	
Fluorene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 12:37	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.90	1	05/04/15 17:00	05/06/15 12:37	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.76	1	05/04/15 17:00	05/06/15 12:37	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 12:37	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.90	1	05/04/15 17:00	05/06/15 12:37	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.53	1	05/04/15 17:00	05/06/15 12:37	193-39-5	
Isophorone	ND	ug/L	10.0	0.92	1	05/04/15 17:00	05/06/15 12:37	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.92	1	05/04/15 17:00	05/06/15 12:37	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 12:37	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 12:37	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 12:37		
Naphthalene	ND	ug/L	10.0	0.93	1	05/04/15 17:00	05/06/15 12:37	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1.5	1	05/04/15 17:00	05/06/15 12:37	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1.3	1	05/04/15 17:00	05/06/15 12:37	99-09-2	

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

Sample: GTW-605-802-2-3 **Lab ID: 92247494002** Collected: 04/27/15 13:25 Received: 04/29/15 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
4-Nitroaniline	ND	ug/L	20.0	1.6	1	05/04/15 17:00	05/06/15 12:37	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 12:37	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.71	1	05/04/15 17:00	05/06/15 12:37	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	3.9	1	05/04/15 17:00	05/06/15 12:37	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.94	1	05/04/15 17:00	05/06/15 12:37	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.85	1	05/04/15 17:00	05/06/15 12:37	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	0.64	1	05/04/15 17:00	05/06/15 12:37	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	1.2	1	05/04/15 17:00	05/06/15 12:37	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.53	1	05/04/15 17:00	05/06/15 12:37	85-01-8	
Phenol	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 12:37	108-95-2	
Pyrene	ND	ug/L	10.0	0.49	1	05/04/15 17:00	05/06/15 12:37	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.3	1	05/04/15 17:00	05/06/15 12:37	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 12:37	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.85	1	05/04/15 17:00	05/06/15 12:37	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	62	%	21-110		1	05/04/15 17:00	05/06/15 12:37	4165-60-0	
2-Fluorobiphenyl (S)	61	%	27-110		1	05/04/15 17:00	05/06/15 12:37	321-60-8	
Terphenyl-d14 (S)	70	%	31-107		1	05/04/15 17:00	05/06/15 12:37	1718-51-0	
Phenol-d6 (S)	25	%	10-110		1	05/04/15 17:00	05/06/15 12:37	13127-88-3	
2-Fluorophenol (S)	31	%	12-110		1	05/04/15 17:00	05/06/15 12:37	367-12-4	
2,4,6-Tribromophenol (S)	76	%	27-110		1	05/04/15 17:00	05/06/15 12:37	118-79-6	

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R2

Sample Project No.: 92247494

Sample: **TRIP BLANK** Lab ID: **92247494003** Collected: 04/27/15 00:00 Received: 04/29/15 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Analytical Method: EPA 8260									
Acetone	11.9J	ug/L	25.0	10.0	1		05/06/15 01:38	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		05/06/15 01:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		05/06/15 01:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/06/15 01:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/06/15 01:38	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/06/15 01:38	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		05/06/15 01:38	74-83-9	L3
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/06/15 01:38	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/06/15 01:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/06/15 01:38	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/06/15 01:38	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/06/15 01:38	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/06/15 01:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		05/06/15 01:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		05/06/15 01:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		05/06/15 01:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/06/15 01:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/06/15 01:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/06/15 01:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/06/15 01:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		05/06/15 01:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/06/15 01:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		05/06/15 01:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/06/15 01:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/06/15 01:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/06/15 01:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/06/15 01:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/06/15 01:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/06/15 01:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		05/06/15 01:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		05/06/15 01:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		05/06/15 01:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/06/15 01:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/06/15 01:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		05/06/15 01:38	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/06/15 01:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		05/06/15 01:38	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/06/15 01:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		05/06/15 01:38	99-87-6	
Methylene Chloride	1.8J	ug/L	2.0	0.97	1		05/06/15 01:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/06/15 01:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		05/06/15 01:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		05/06/15 01:38	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		05/06/15 01:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/06/15 01:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/06/15 01:38	79-34-5	

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

Sample: TRIP BLANK **Lab ID: 92247494003** Collected: 04/27/15 00:00 Received: 04/29/15 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level									
Analytical Method: EPA 8260									
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/06/15 01:38	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/06/15 01:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		05/06/15 01:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		05/06/15 01:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/06/15 01:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/06/15 01:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/06/15 01:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/06/15 01:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/06/15 01:38	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/06/15 01:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/06/15 01:38	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/06/15 01:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/06/15 01:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		05/06/15 01:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		05/06/15 01:38	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		05/06/15 01:38	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/06/15 01:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

QC Batch: GCV/9322

Analysis Method: EPA 5030/8015 Mod.

QC Batch Method: EPA 5030/8015 Mod.

Analysis Description: Gasoline Range Organics

Associated Lab Samples: 92247494001, 92247494002

METHOD BLANK: 1455244

Matrix: Water

Associated Lab Samples: 92247494001, 92247494002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	0.080	05/10/15 16:52	
4-Bromofluorobenzene (S)	%	100	70-145	05/10/15 16:52	

LABORATORY CONTROL SAMPLE: 1455245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	1	0.95	95	70-150	
4-Bromofluorobenzene (S)	%			101	70-145	

MATRIX SPIKE SAMPLE: 1455246

Parameter	Units	92248374003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	1	0.28	27	70-150	M0
4-Bromofluorobenzene (S)	%				112	70-145	

SAMPLE DUPLICATE: 1455247

Parameter	Units	92248374004 Result	Dup Result	RPD	Max RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	ND		30	
4-Bromofluorobenzene (S)	%	112	106	5		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

QC Batch: MERP/7785

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Associated Lab Samples: 92247494001, 92247494002

METHOD BLANK: 1447468

Matrix: Water

Associated Lab Samples: 92247494001, 92247494002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/01/15 14:50	

LABORATORY CONTROL SAMPLE: 1447469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1447470 1447471

Parameter	Units	92246735035 Result	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
			Spike Conc.	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec			
Mercury	ug/L	ND	2.5	2.5	2.4	2.4	96	96	75-125	0	25		

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

QC Batch: MPRP/18383 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET
 Associated Lab Samples: 92247494001, 92247494002

METHOD BLANK: 1447194 Matrix: Water

Associated Lab Samples: 92247494001, 92247494002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	100	05/01/15 14:10	
Antimony	ug/L	ND	5.0	05/01/15 14:10	
Arsenic	ug/L	ND	10.0	05/01/15 14:10	
Barium	ug/L	ND	5.0	05/01/15 14:10	
Beryllium	ug/L	0.078J	1.0	05/01/15 14:10	
Cadmium	ug/L	0.072J	1.0	05/01/15 14:10	
Calcium	ug/L	ND	100	05/01/15 14:10	
Chromium	ug/L	ND	5.0	05/01/15 14:10	
Cobalt	ug/L	ND	5.0	05/01/15 14:10	
Copper	ug/L	ND	5.0	05/01/15 14:10	
Iron	ug/L	ND	50.0	05/01/15 14:10	
Lead	ug/L	ND	5.0	05/01/15 14:10	
Magnesium	ug/L	ND	100	05/01/15 14:10	
Manganese	ug/L	ND	5.0	05/01/15 14:10	
Nickel	ug/L	ND	5.0	05/01/15 14:10	
Potassium	ug/L	ND	5000	05/01/15 14:10	
Selenium	ug/L	ND	10.0	05/01/15 14:10	
Silver	ug/L	ND	5.0	05/01/15 14:10	
Sodium	ug/L	ND	5000	05/04/15 12:56	
Thallium	ug/L	ND	10.0	05/01/15 14:10	
Vanadium	ug/L	ND	5.0	05/01/15 14:10	
Zinc	ug/L	8.9J	10.0	05/01/15 14:10	

LABORATORY CONTROL SAMPLE: 1447195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	4800	96	80-120	
Antimony	ug/L	500	496	99	80-120	
Arsenic	ug/L	500	478	96	80-120	
Barium	ug/L	500	480	96	80-120	
Beryllium	ug/L	500	476	95	80-120	
Cadmium	ug/L	500	479	96	80-120	
Calcium	ug/L	5000	4640	93	80-120	
Chromium	ug/L	500	473	95	80-120	
Cobalt	ug/L	500	483	97	80-120	
Copper	ug/L	500	491	98	80-120	
Iron	ug/L	5000	4700	94	80-120	
Lead	ug/L	500	479	96	80-120	
Magnesium	ug/L	5000	4630	93	80-120	
Manganese	ug/L	500	462	92	80-120	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

LABORATORY CONTROL SAMPLE: 1447195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nickel	ug/L	500	471	94	80-120	
Potassium	ug/L	5000	4850J	97	80-120	
Selenium	ug/L	500	473	95	80-120	
Silver	ug/L	250	239	96	80-120	
Sodium	ug/L	5000	5140	103	80-120	
Thallium	ug/L	500	474	95	80-120	
Vanadium	ug/L	500	471	94	80-120	
Zinc	ug/L	500	466	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1447196 1447197

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92247303001 Result	Spike Conc.	Spike Conc.	MS Result							
Aluminum	ug/L	ND	5000	5000	4840	4870	97	97	75-125	1	20	
Antimony	ug/L	ND	500	500	505	504	100	100	75-125	0	20	
Arsenic	ug/L	ND	500	500	491	489	98	98	75-125	0	20	
Barium	ug/L	102	500	500	578	582	95	96	75-125	1	20	
Beryllium	ug/L	ND	500	500	477	480	95	96	75-125	1	20	
Cadmium	ug/L	ND	500	500	484	485	97	97	75-125	0	20	
Calcium	ug/L	97600	5000	5000	104000	103000	138	116	75-125	1	20	M6
Chromium	ug/L	ND	500	500	470	473	94	94	75-125	1	20	
Cobalt	ug/L	ND	500	500	468	468	94	94	75-125	0	20	
Copper	ug/L	ND	500	500	494	496	99	99	75-125	1	20	
Iron	ug/L	790	5000	5000	5420	5450	93	93	75-125	0	20	
Lead	ug/L	ND	500	500	469	470	94	94	75-125	0	20	
Magnesium	ug/L	37800	5000	5000	42000	42100	84	86	75-125	0	20	
Manganese	ug/L	8.9	500	500	463	467	91	92	75-125	1	20	
Nickel	ug/L	ND	500	500	456	456	91	91	75-125	0	20	
Potassium	ug/L	ND	5000	5000	6970	6980	98	98	75-125	0	20	
Selenium	ug/L	ND	500	500	481	481	96	96	75-125	0	20	
Silver	ug/L	ND	250	250	241	243	96	97	75-125	1	20	
Sodium	ug/L	6580	5000	5000	11700	11700	103	103	75-125	0	20	
Thallium	ug/L	ND	500	500	462	468	92	93	75-125	1	20	
Vanadium	ug/L	ND	500	500	473	476	95	95	75-125	1	20	
Zinc	ug/L	6.3J	500	500	458	459	90	91	75-125	0	20	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

QC Batch: MSV/31503

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92247494003

METHOD BLANK: 1450549

Matrix: Water

Associated Lab Samples: 92247494003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/05/15 20:51	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/05/15 20:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/05/15 20:51	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/05/15 20:51	
1,1-Dichloroethane	ug/L	ND	1.0	05/05/15 20:51	
1,1-Dichloroethene	ug/L	ND	1.0	05/05/15 20:51	
1,1-Dichloropropene	ug/L	ND	1.0	05/05/15 20:51	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/05/15 20:51	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/05/15 20:51	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/05/15 20:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/05/15 20:51	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/05/15 20:51	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/05/15 20:51	
1,2-Dichloroethane	ug/L	ND	1.0	05/05/15 20:51	
1,2-Dichloropropane	ug/L	ND	1.0	05/05/15 20:51	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/05/15 20:51	
1,3-Dichloropropane	ug/L	ND	1.0	05/05/15 20:51	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/05/15 20:51	
2,2-Dichloropropane	ug/L	ND	1.0	05/05/15 20:51	
2-Butanone (MEK)	ug/L	ND	5.0	05/05/15 20:51	
2-Chlorotoluene	ug/L	ND	1.0	05/05/15 20:51	
2-Hexanone	ug/L	ND	5.0	05/05/15 20:51	
4-Chlorotoluene	ug/L	ND	1.0	05/05/15 20:51	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/05/15 20:51	
Acetone	ug/L	ND	25.0	05/05/15 20:51	
Benzene	ug/L	ND	1.0	05/05/15 20:51	
Bromobenzene	ug/L	ND	1.0	05/05/15 20:51	
Bromochloromethane	ug/L	ND	1.0	05/05/15 20:51	
Bromodichloromethane	ug/L	ND	1.0	05/05/15 20:51	
Bromoform	ug/L	ND	1.0	05/05/15 20:51	
Bromomethane	ug/L	ND	2.0	05/05/15 20:51	
Carbon tetrachloride	ug/L	ND	1.0	05/05/15 20:51	
Chlorobenzene	ug/L	ND	1.0	05/05/15 20:51	
Chloroethane	ug/L	ND	1.0	05/05/15 20:51	
Chloroform	ug/L	ND	1.0	05/05/15 20:51	
Chloromethane	ug/L	ND	1.0	05/05/15 20:51	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/05/15 20:51	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/05/15 20:51	
Dibromochloromethane	ug/L	ND	1.0	05/05/15 20:51	
Dibromomethane	ug/L	ND	1.0	05/05/15 20:51	
Dichlorodifluoromethane	ug/L	ND	1.0	05/05/15 20:51	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

METHOD BLANK: 1450549

Matrix: Water

Associated Lab Samples: 92247494003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	05/05/15 20:51	
Ethylbenzene	ug/L	ND	1.0	05/05/15 20:51	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/05/15 20:51	
m&p-Xylene	ug/L	ND	2.0	05/05/15 20:51	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/05/15 20:51	
Methylene Chloride	ug/L	1.6J	2.0	05/05/15 20:51	
Naphthalene	ug/L	ND	1.0	05/05/15 20:51	
o-Xylene	ug/L	ND	1.0	05/05/15 20:51	
p-Isopropyltoluene	ug/L	ND	1.0	05/05/15 20:51	
Styrene	ug/L	ND	1.0	05/05/15 20:51	
Tetrachloroethene	ug/L	ND	1.0	05/05/15 20:51	
Toluene	ug/L	ND	1.0	05/05/15 20:51	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/05/15 20:51	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/05/15 20:51	
Trichloroethene	ug/L	ND	1.0	05/05/15 20:51	
Trichlorofluoromethane	ug/L	ND	1.0	05/05/15 20:51	
Vinyl acetate	ug/L	ND	2.0	05/05/15 20:51	
Vinyl chloride	ug/L	ND	1.0	05/05/15 20:51	
Xylene (Total)	ug/L	ND	2.0	05/05/15 20:51	
1,2-Dichloroethane-d4 (S)	%	83	70-130	05/05/15 20:51	
4-Bromofluorobenzene (S)	%	98	70-130	05/05/15 20:51	
Toluene-d8 (S)	%	98	70-130	05/05/15 20:51	

LABORATORY CONTROL SAMPLE: 1450550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.4	113	70-130	
1,1,1-Trichloroethane	ug/L	50	50.4	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	58.1	116	70-130	
1,1,2-Trichloroethane	ug/L	50	54.6	109	70-130	
1,1-Dichloroethane	ug/L	50	56.8	114	70-130	
1,1-Dichloroethene	ug/L	50	50.1	100	70-132	
1,1-Dichloropropene	ug/L	50	58.4	117	70-130	
1,2,3-Trichlorobenzene	ug/L	50	59.9	120	70-135	
1,2,3-Trichloropropane	ug/L	50	53.3	107	70-130	
1,2,4-Trichlorobenzene	ug/L	50	61.1	122	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	55.0	110	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	59.0	118	70-130	
1,2-Dichlorobenzene	ug/L	50	57.3	115	70-130	
1,2-Dichloroethane	ug/L	50	48.2	96	70-130	
1,2-Dichloropropane	ug/L	50	58.3	117	70-130	
1,3-Dichlorobenzene	ug/L	50	58.5	117	70-130	
1,3-Dichloropropane	ug/L	50	56.1	112	70-130	
1,4-Dichlorobenzene	ug/L	50	57.8	116	70-130	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

LABORATORY CONTROL SAMPLE: 1450550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	55.1	110	58-145	
2-Butanone (MEK)	ug/L	100	117	117	70-145	
2-Chlorotoluene	ug/L	50	54.8	110	70-130	
2-Hexanone	ug/L	100	117	117	70-144	
4-Chlorotoluene	ug/L	50	54.9	110	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	70-140	
Acetone	ug/L	100	103	103	50-175	
Benzene	ug/L	50	58.4	117	70-130	
Bromobenzene	ug/L	50	57.1	114	70-130	
Bromochloromethane	ug/L	50	58.3	117	70-130	
Bromodichloromethane	ug/L	50	47.3	95	70-130	
Bromoform	ug/L	50	44.1	88	70-130	
Bromomethane	ug/L	50	69.6	139	54-130	L0
Carbon tetrachloride	ug/L	50	50.6	101	70-132	
Chlorobenzene	ug/L	50	58.2	116	70-130	
Chloroethane	ug/L	50	57.8	116	64-134	
Chloroform	ug/L	50	47.4	95	70-130	
Chloromethane	ug/L	50	58.1	116	64-130	
cis-1,2-Dichloroethene	ug/L	50	56.8	114	70-131	
cis-1,3-Dichloropropene	ug/L	50	60.9	122	70-130	
Dibromochloromethane	ug/L	50	50.5	101	70-130	
Dibromomethane	ug/L	50	52.7	105	70-131	
Dichlorodifluoromethane	ug/L	50	50.2	100	56-130	
Diisopropyl ether	ug/L	50	62.8	126	70-130	
Ethylbenzene	ug/L	50	55.8	112	70-130	
Hexachloro-1,3-butadiene	ug/L	50	61.8	124	70-130	
m&p-Xylene	ug/L	100	112	112	70-130	
Methyl-tert-butyl ether	ug/L	50	53.6	107	70-130	
Methylene Chloride	ug/L	50	54.0	108	63-130	
Naphthalene	ug/L	50	61.2	122	70-138	
o-Xylene	ug/L	50	55.8	112	70-130	
p-Isopropyltoluene	ug/L	50	62.9	126	70-130	
Styrene	ug/L	50	59.0	118	70-130	
Tetrachloroethene	ug/L	50	55.3	111	70-130	
Toluene	ug/L	50	57.4	115	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.2	108	70-130	
trans-1,3-Dichloropropene	ug/L	50	58.2	116	70-132	
Trichloroethene	ug/L	50	54.0	108	70-130	
Trichlorofluoromethane	ug/L	50	46.6	93	62-133	
Vinyl acetate	ug/L	100	119	119	66-157	
Vinyl chloride	ug/L	50	64.1	128	50-150	
Xylene (Total)	ug/L	150	168	112	70-130	
1,2-Dichloroethane-d4 (S)	%			81	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

MATRIX SPIKE SAMPLE: 1450551		92247961001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	24.0	120	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	24.8	124	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	22.9	114	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	22.6	113	70-130	
1,1-Dichloroethane	ug/L	ND	20	23.6	118	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.7	119	70-166	
1,1-Dichloropropene	ug/L	ND	20	26.4	132	70-130	M1
1,2,3-Trichlorobenzene	ug/L	ND	20	24.1	121	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	23.6	118	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	24.0	120	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	23.3	116	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	23.5	118	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	23.9	120	70-130	
1,2-Dichloroethane	ug/L	ND	20	22.3	112	70-130	
1,2-Dichloropropane	ug/L	ND	20	23.2	116	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	24.0	120	70-130	
1,3-Dichloropropane	ug/L	ND	20	23.1	116	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	24.2	121	70-130	
2,2-Dichloropropane	ug/L	ND	20	25.1	126	70-130	
2-Butanone (MEK)	ug/L	ND	40	41.5	104	70-130	
2-Chlorotoluene	ug/L	ND	20	25.9	130	70-130	
2-Hexanone	ug/L	ND	40	43.9	110	70-130	
4-Chlorotoluene	ug/L	ND	20	24.1	121	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	42.9	107	70-130	
Acetone	ug/L	ND	40	39.4	94	70-130	
Benzene	ug/L	ND	20	24.8	124	70-148	
Bromobenzene	ug/L	ND	20	24.2	121	70-130	
Bromochloromethane	ug/L	ND	20	25.0	125	70-130	
Bromodichloromethane	ug/L	ND	20	21.7	109	70-130	
Bromoform	ug/L	ND	20	21.3	106	70-130	
Bromomethane	ug/L	ND	20	32.2	161	70-130	M0
Carbon tetrachloride	ug/L	ND	20	27.7	138	70-130	M1
Chlorobenzene	ug/L	ND	20	24.2	121	70-146	
Chloroethane	ug/L	ND	20	22.0	110	70-130	
Chloroform	ug/L	ND	20	21.9	110	70-130	
Chloromethane	ug/L	ND	20	22.0	110	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	23.5	118	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	23.5	118	70-130	
Dibromochloromethane	ug/L	ND	20	22.7	114	70-130	
Dibromomethane	ug/L	ND	20	23.1	115	70-130	
Dichlorodifluoromethane	ug/L	ND	20	18.0	90	70-130	
Diisopropyl ether	ug/L	ND	20	22.8	114	70-130	
Ethylbenzene	ug/L	ND	20	25.1	125	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	29.4	147	70-130	M1
m&p-Xylene	ug/L	ND	40	50.0	125	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	22.0	110	70-130	
Methylene Chloride	ug/L	ND	20	21.4	103	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

MATRIX SPIKE SAMPLE: 1450551		92247961001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L	ND	20	23.6	118	70-130	
o-Xylene	ug/L	ND	20	25.0	125	70-130	
p-Isopropyltoluene	ug/L	ND	20	25.7	128	70-130	
Styrene	ug/L	ND	20	24.9	125	70-130	
Tetrachloroethene	ug/L	ND	20	25.5	128	70-130	
Toluene	ug/L	ND	20	24.5	123	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	23.6	118	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	23.8	119	70-130	
Trichloroethene	ug/L	ND	20	25.8	129	69-151	
Trichlorofluoromethane	ug/L	ND	20	23.4	117	70-130	
Vinyl acetate	ug/L	ND	40	43.3	108	70-130	
Vinyl chloride	ug/L	ND	20	22.9	115	70-130	
1,2-Dichloroethane-d4 (S)	%				96	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1450552

Parameter	Units	92247961002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

SAMPLE DUPLICATE: 1450552

Parameter	Units	92247961002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	2.5	2.7	8	30	
Toluene	ug/L	0.40	0.41J		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	112	101	10		
4-Bromofluorobenzene (S)	%	103	105	1		
Toluene-d8 (S)	%	98	100	1		

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

QC Batch: OEXT/34762 Analysis Method: EPA 8015 Modified

QC Batch Method: EPA 3510 Analysis Description: 8015 GCS

Associated Lab Samples: 92247494001, 92247494002

METHOD BLANK: 1449565 Matrix: Water

Associated Lab Samples: 92247494001, 92247494002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/L	0.71	0.50	05/07/15 23:41	
n-Pentacosane (S)	%	88	48-110	05/07/15 23:41	

LABORATORY CONTROL SAMPLE & LCSD: 1449566 1449567

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics(C10-C28)	mg/L	10	6.1	6.2	61	62	41-114	2	30	
n-Pentacosane (S)	%				96	95	48-110			

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

QC Batch: OEXT/34764

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 Water MSSV

Associated Lab Samples: 92247494001, 92247494002

METHOD BLANK: 1449638

Matrix: Water

Associated Lab Samples: 92247494001, 92247494002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	05/06/15 09:27	
1,2-Dichlorobenzene	ug/L	ND	10.0	05/06/15 09:27	
1,3-Dichlorobenzene	ug/L	ND	10.0	05/06/15 09:27	
1,4-Dichlorobenzene	ug/L	ND	10.0	05/06/15 09:27	
1-Methylnaphthalene	ug/L	ND	10.0	05/06/15 09:27	
2,4,5-Trichlorophenol	ug/L	ND	10.0	05/06/15 09:27	
2,4,6-Trichlorophenol	ug/L	ND	10.0	05/06/15 09:27	
2,4-Dichlorophenol	ug/L	ND	10.0	05/06/15 09:27	
2,4-Dimethylphenol	ug/L	ND	10.0	05/06/15 09:27	
2,4-Dinitrophenol	ug/L	ND	50.0	05/06/15 09:27	
2,4-Dinitrotoluene	ug/L	ND	10.0	05/06/15 09:27	
2,6-Dinitrotoluene	ug/L	ND	10.0	05/06/15 09:27	
2-Chloronaphthalene	ug/L	ND	10.0	05/06/15 09:27	
2-Chlorophenol	ug/L	ND	10.0	05/06/15 09:27	
2-Methylnaphthalene	ug/L	ND	10.0	05/06/15 09:27	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	05/06/15 09:27	
2-Nitroaniline	ug/L	ND	50.0	05/06/15 09:27	
2-Nitrophenol	ug/L	ND	10.0	05/06/15 09:27	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	05/06/15 09:27	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/06/15 09:27	
3-Nitroaniline	ug/L	ND	50.0	05/06/15 09:27	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	05/06/15 09:27	
4-Bromophenylphenyl ether	ug/L	ND	10.0	05/06/15 09:27	
4-Chloro-3-methylphenol	ug/L	ND	20.0	05/06/15 09:27	
4-Chloroaniline	ug/L	ND	20.0	05/06/15 09:27	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	05/06/15 09:27	
4-Nitroaniline	ug/L	ND	20.0	05/06/15 09:27	
4-Nitrophenol	ug/L	ND	50.0	05/06/15 09:27	
Acenaphthene	ug/L	ND	10.0	05/06/15 09:27	
Acenaphthylene	ug/L	ND	10.0	05/06/15 09:27	
Aniline	ug/L	ND	10.0	05/06/15 09:27	
Anthracene	ug/L	ND	10.0	05/06/15 09:27	
Benzo(a)anthracene	ug/L	ND	10.0	05/06/15 09:27	
Benzo(a)pyrene	ug/L	ND	10.0	05/06/15 09:27	
Benzo(b)fluoranthene	ug/L	ND	10.0	05/06/15 09:27	
Benzo(g,h,i)perylene	ug/L	ND	10.0	05/06/15 09:27	
Benzo(k)fluoranthene	ug/L	ND	10.0	05/06/15 09:27	
Benzoic Acid	ug/L	ND	50.0	05/06/15 09:27	
Benzyl alcohol	ug/L	ND	20.0	05/06/15 09:27	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	05/06/15 09:27	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	05/06/15 09:27	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

METHOD BLANK: 1449638

Matrix: Water

Associated Lab Samples: 92247494001, 92247494002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	05/06/15 09:27	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	05/06/15 09:27	
Butylbenzylphthalate	ug/L	ND	10.0	05/06/15 09:27	
Chrysene	ug/L	ND	10.0	05/06/15 09:27	
Di-n-butylphthalate	ug/L	ND	10.0	05/06/15 09:27	
Di-n-octylphthalate	ug/L	ND	10.0	05/06/15 09:27	
Dibenz(a,h)anthracene	ug/L	ND	10.0	05/06/15 09:27	
Dibenzofuran	ug/L	ND	10.0	05/06/15 09:27	
Diethylphthalate	ug/L	ND	10.0	05/06/15 09:27	
Dimethylphthalate	ug/L	ND	10.0	05/06/15 09:27	
Fluoranthene	ug/L	ND	10.0	05/06/15 09:27	
Fluorene	ug/L	ND	10.0	05/06/15 09:27	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	05/06/15 09:27	
Hexachlorobenzene	ug/L	ND	10.0	05/06/15 09:27	
Hexachlorocyclopentadiene	ug/L	ND	10.0	05/06/15 09:27	
Hexachloroethane	ug/L	ND	10.0	05/06/15 09:27	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	05/06/15 09:27	
Isophorone	ug/L	ND	10.0	05/06/15 09:27	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	05/06/15 09:27	
N-Nitrosodimethylamine	ug/L	ND	10.0	05/06/15 09:27	
N-Nitrosodiphenylamine	ug/L	ND	10.0	05/06/15 09:27	
Naphthalene	ug/L	ND	10.0	05/06/15 09:27	
Nitrobenzene	ug/L	ND	10.0	05/06/15 09:27	
Pentachlorophenol	ug/L	ND	25.0	05/06/15 09:27	
Phenanthrene	ug/L	ND	10.0	05/06/15 09:27	
Phenol	ug/L	ND	10.0	05/06/15 09:27	
Pyrene	ug/L	ND	10.0	05/06/15 09:27	
2,4,6-Tribromophenol (S)	%	79	27-110	05/06/15 09:27	
2-Fluorobiphenyl (S)	%	70	27-110	05/06/15 09:27	
2-Fluorophenol (S)	%	40	12-110	05/06/15 09:27	
Nitrobenzene-d5 (S)	%	77	21-110	05/06/15 09:27	
Phenol-d6 (S)	%	32	10-110	05/06/15 09:27	
Terphenyl-d14 (S)	%	83	31-107	05/06/15 09:27	

LABORATORY CONTROL SAMPLE: 1449639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	26.9	54	31-120	
1,2-Dichlorobenzene	ug/L	50	36.0	72	38-120	
1,3-Dichlorobenzene	ug/L	50	32.3	65	30-122	
1,4-Dichlorobenzene	ug/L	50	34.0	68	37-120	
1-Methylnaphthalene	ug/L	50	33.2	66	34-113	
2,4,5-Trichlorophenol	ug/L	50	46.7	93	43-113	
2,4,6-Trichlorophenol	ug/L	50	47.5	95	42-120	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

LABORATORY CONTROL SAMPLE: 1449639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dichlorophenol	ug/L	50	35.8	72	30-120	
2,4-Dimethylphenol	ug/L	50	33.8	68	29-111	
2,4-Dinitrophenol	ug/L	250	230	92	19-132	
2,4-Dinitrotoluene	ug/L	50	49.2	98	58-128	
2,6-Dinitrotoluene	ug/L	50	48.2	96	54-129	
2-Chloronaphthalene	ug/L	50	39.3	79	43-117	
2-Chlorophenol	ug/L	50	42.4	85	37-120	
2-Methylnaphthalene	ug/L	50	29.4	59	33-120	
2-Methylphenol(o-Cresol)	ug/L	50	39.7	79	31-120	
2-Nitroaniline	ug/L	100	120	120	48-121	
2-Nitrophenol	ug/L	50	34.8	70	25-116	
3&4-Methylphenol(m&p Cresol)	ug/L	50	35.1	70	23-120	
3,3'-Dichlorobenzidine	ug/L	100	84.8	85	10-154	
3-Nitroaniline	ug/L	100	101	101	43-115	
4,6-Dinitro-2-methylphenol	ug/L	100	94.6	95	44-124	
4-Bromophenylphenyl ether	ug/L	50	40.2	80	34-113	
4-Chloro-3-methylphenol	ug/L	100	77.7	78	31-110	
4-Chloroaniline	ug/L	100	68.1	68	20-120	
4-Chlorophenylphenyl ether	ug/L	50	43.4	87	34-116	
4-Nitroaniline	ug/L	100	109	109	46-128	
4-Nitrophenol	ug/L	250	111	44	11-120	
Acenaphthene	ug/L	50	44.2	88	48-114	
Acenaphthylene	ug/L	50	42.4	85	48-112	
Aniline	ug/L	50	34.7	69	26-120	
Anthracene	ug/L	50	45.5	91	57-118	
Benzo(a)anthracene	ug/L	50	41.8	84	56-121	
Benzo(a)pyrene	ug/L	50	43.1	86	55-127	
Benzo(b)fluoranthene	ug/L	50	42.5	85	53-128	
Benzo(g,h,i)perylene	ug/L	50	44.7	89	54-125	
Benzo(k)fluoranthene	ug/L	50	41.4	83	51-123	
Benzoic Acid	ug/L	250	74.5	30	10-120	
Benzyl alcohol	ug/L	100	85.7	86	27-120	
bis(2-Chloroethoxy)methane	ug/L	50	38.7	77	32-120	
bis(2-Chloroethyl) ether	ug/L	50	49.6	99	33-111	
bis(2-Chloroisopropyl) ether	ug/L	50	60.5	121	15-120	L0
bis(2-Ethylhexyl)phthalate	ug/L	50	51.5	103	50-145	
Butylbenzylphthalate	ug/L	50	51.3	103	54-138	
Chrysene	ug/L	50	42.7	85	58-127	
Di-n-butylphthalate	ug/L	50	55.0	110	56-125	
Di-n-octylphthalate	ug/L	50	53.5	107	50-134	
Dibenz(a,h)anthracene	ug/L	50	44.9	90	53-129	
Dibenzofuran	ug/L	50	44.8	90	45-120	
Diethylphthalate	ug/L	50	54.5	109	53-120	
Dimethylphthalate	ug/L	50	51.3	103	55-116	
Fluoranthene	ug/L	50	44.1	88	57-125	
Fluorene	ug/L	50	45.6	91	53-118	
Hexachloro-1,3-butadiene	ug/L	50	24.6	49	23-120	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

LABORATORY CONTROL SAMPLE: 1449639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorobenzene	ug/L	50	37.8	76	49-116	
Hexachlorocyclopentadiene	ug/L	50	23.0	46	26-158	
Hexachloroethane	ug/L	50	34.1	68	30-114	
Indeno(1,2,3-cd)pyrene	ug/L	50	43.9	88	55-128	
Isophorone	ug/L	50	40.1	80	31-118	
N-Nitroso-di-n-propylamine	ug/L	50	57.8	116	32-119	
N-Nitrosodimethylamine	ug/L	50	25.6	51	13-120	
N-Nitrosodiphenylamine	ug/L	50	45.0	90	43-120	
Naphthalene	ug/L	50	30.6	61	32-120	
Nitrobenzene	ug/L	50	38.3	77	33-110	
Pentachlorophenol	ug/L	100	87.7	88	10-137	
Phenanthrene	ug/L	50	45.4	91	57-117	
Phenol	ug/L	50	23.5	47	10-120	
Pyrene	ug/L	50	40.9	82	55-122	
2,4,6-Tribromophenol (S)	%			88	27-110	
2-Fluorobiphenyl (S)	%			78	27-110	
2-Fluorophenol (S)	%			46	12-110	
Nitrobenzene-d5 (S)	%			70	21-110	
Phenol-d6 (S)	%			39	10-110	
Terphenyl-d14 (S)	%			87	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1449640 1449641

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92247303004 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2,4-Trichlorobenzene	ug/L	ND	100	100	58.8	57.5	59	58	10-110	2	30	
1,2-Dichlorobenzene	ug/L	ND	100	100	70.6	74.5	71	74	10-110	5	30	
1,3-Dichlorobenzene	ug/L	ND	100	100	67.9	69.8	68	70	10-110	3	30	
1,4-Dichlorobenzene	ug/L	ND	100	100	70.2	72.5	70	72	10-110	3	30	
1-Methylnaphthalene	ug/L	ND	100	100	63.5	65.9	63	66	14-110	4	30	
2,4,5-Trichlorophenol	ug/L	ND	100	100	91.1	90.5	91	91	19-105	1	30	
2,4,6-Trichlorophenol	ug/L	ND	100	100	90.7	89.5	91	89	13-108	1	30	
2,4-Dichlorophenol	ug/L	ND	100	100	68.3	67.2	68	67	29-111	2	30	
2,4-Dimethylphenol	ug/L	ND	100	100	65.2	66.9	65	67	21-103	2	30	
2,4-Dinitrophenol	ug/L	ND	500	500	351	427	70	85	10-109	19	30	
2,4-Dinitrotoluene	ug/L	ND	100	100	93.4	92.5	93	92	27-104	1	30	
2,6-Dinitrotoluene	ug/L	ND	100	100	91.3	90.7	91	91	28-101	1	30	
2-Chloronaphthalene	ug/L	ND	100	100	77.7	74.8	78	75	14-102	4	30	
2-Chlorophenol	ug/L	ND	100	100	74.5	81.2	75	81	16-110	9	30	
2-Methylnaphthalene	ug/L	ND	100	100	56.5	58.4	57	58	13-110	3	30	
2-Methylphenol(o-Cresol)	ug/L	ND	100	100	70.6	78.9	71	79	19-110	11	30	
2-Nitroaniline	ug/L	ND	200	200	225	219	112	110	26-103	3	30	M1
2-Nitrophenol	ug/L	ND	100	100	62.8	63.6	63	64	20-110	1	30	
3&4-Methylphenol(m&p Cresol)	ug/L	4.0J	100	100	74.3	80.1	70	76	20-110	7	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2
Pace Project No.: 92247494

Parameter	Units	92247303004		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			1449640													
3,3'-Dichlorobenzidine	ug/L	ND	200	200	117	113	59	56	25-112	4	30					
3-Nitroaniline	ug/L	ND	200	200	193	186	96	93	29-110	3	30					
4,6-Dinitro-2-methylphenol	ug/L	ND	200	200	171	168	86	84	10-117	2	30					
4-Bromophenylphenyl ether	ug/L	ND	100	100	76.0	69.2	76	69	20-105	9	30					
4-Chloro-3-methylphenol	ug/L	ND	200	200	154	155	77	78	22-110	0	30					
4-Chloroaniline	ug/L	ND	200	200	122	124	61	62	20-100	2	30					
4-Chlorophenylphenyl ether	ug/L	ND	100	100	82.5	80.0	83	80	19-102	3	30					
4-Nitroaniline	ug/L	ND	200	200	222	221	111	110	29-110	1	30	M1				
4-Nitrophenol	ug/L	ND	500	500	275	324	55	65	10-110	16	30					
Acenaphthene	ug/L	ND	100	100	83.4	81.0	83	81	17-100	3	30					
Acenaphthylene	ug/L	ND	100	100	80.4	78.9	80	79	21-100	2	30					
Aniline	ug/L	ND	100	100	65.4	69.2	65	69	10-110	6	30					
Anthracene	ug/L	ND	100	100	86.7	82.3	87	82	24-109	5	30					
Benzo(a)anthracene	ug/L	ND	100	100	78.1	73.5	78	74	22-117	6	30					
Benzo(a)pyrene	ug/L	ND	100	100	82.7	76.4	83	76	23-104	8	30					
Benzo(b)fluoranthene	ug/L	ND	100	100	82.1	77.0	82	77	23-103	6	30					
Benzo(g,h,i)perylene	ug/L	ND	100	100	87.4	81.1	87	81	18-111	8	30					
Benzo(k)fluoranthene	ug/L	ND	100	100	77.8	73.5	78	74	22-113	6	30					
Benzoic Acid	ug/L	ND	500	500	41.1J	89.4J	8	18	10-110		30	M1				
Benzyl alcohol	ug/L	ND	200	200	155	171	78	85	19-101	10	30					
bis(2-Chloroethoxy)methane	ug/L	ND	100	100	70.0	70.3	70	70	22-110	0	30					
bis(2-Chloroethyl) ether	ug/L	ND	100	100	89.1	88.1	89	88	16-110	1	30					
bis(2-Chloroisopropyl) ether	ug/L	ND	100	100	107	109	107	109	14-110	3	30					
bis(2-Ethylhexyl)phthalate	ug/L	38.2	100	100	93.9	88.5	56	50	23-102	6	30					
Butylbenzylphthalate	ug/L	ND	100	100	93.2	89.6	93	90	25-110	4	30					
Chrysene	ug/L	ND	100	100	80.8	76.1	81	76	23-115	6	30					
Di-n-butylphthalate	ug/L	ND	100	100	106	98.9	106	99	26-110	7	30					
Di-n-octylphthalate	ug/L	ND	100	100	98.2	92.3	98	92	22-110	6	30					
Dibenz(a,h)anthracene	ug/L	ND	100	100	85.7	80.2	86	80	21-112	7	30					
Dibenzofuran	ug/L	ND	100	100	84.7	83.3	85	83	19-102	2	30					
Diethylphthalate	ug/L	ND	100	100	102	101	102	101	29-110	1	30					
Dimethylphthalate	ug/L	ND	100	100	95.0	94.4	95	94	27-110	1	30					
Fluoranthene	ug/L	ND	100	100	89.0	82.5	89	82	23-112	8	30					
Fluorene	ug/L	ND	100	100	86.7	85.2	87	85	22-104	2	30					
Hexachloro-1,3-butadiene	ug/L	ND	100	100	55.7	54.7	56	55	10-110	2	30					
Hexachlorobenzene	ug/L	ND	100	100	70.6	64.8	71	65	21-116	9	30					
Hexachlorocyclopentadiene	ug/L	ND	100	100	43.8	42.6	44	43	10-110	3	30					
Hexachloroethane	ug/L	ND	100	100	70.1	73.6	70	74	10-110	5	30					
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	85.6	79.7	86	80	20-113	7	30					
Isophorone	ug/L	ND	100	100	70.6	73.9	71	74	50-150	5	30					
N-Nitroso-di-n-propylamine	ug/L	ND	100	100	95.9	102	96	102	21-105	6	30					
N-Nitrosodimethylamine	ug/L	ND	100	100	64.8	71.5	65	72	10-110	10	30					
N-Nitrosodiphenylamine	ug/L	ND	100	100	86.3	80.2	86	80	23-107	7	30					
Naphthalene	ug/L	ND	100	100	61.6	61.2	62	61	10-110	1	30					
Nitrobenzene	ug/L	ND	100	100	70.3	70.8	70	71	20-110	1	30					
Pentachlorophenol	ug/L	ND	200	200	168	169	84	84	10-118	0	30					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R2

Pace Project No.: 92247494

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1449640		1449641		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92247303004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Phenanthrene	ug/L	ND	100	100	87.1	81.4	87	81	24-106	7	30		
Phenol	ug/L	ND	100	100	51.2	59.3	51	59	12-110	15	30		
Pyrene	ug/L	ND	100	100	72.2	69.3	72	69	24-114	4	30		
2,4,6-Tribromophenol (S)	%						81	74	27-110				
2-Fluorobiphenyl (S)	%						73	69	27-110				
2-Fluorophenol (S)	%						50	55	12-110				
Nitrobenzene-d5 (S)	%						65	63	21-110				
Phenol-d6 (S)	%						45	52	10-110				
Terphenyl-d14 (S)	%						66	63	31-107				

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QUALIFIERS

Project: Buzzard Point, Washington DC R2
Pace Project No.: 92247494

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville
PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Buzzard Point, Washington DC R2
Pace Project No.: 92247494

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92247494001	GTW-605-802-7-2	EPA 3510	OEXT/34762	EPA 8015 Modified	GCSV/21237
92247494002	GTW-605-802-2-3	EPA 3510	OEXT/34762	EPA 8015 Modified	GCSV/21237
92247494001	GTW-605-802-7-2	EPA 5030/8015 Mod.	GCV/9322		
92247494002	GTW-605-802-2-3	EPA 5030/8015 Mod.	GCV/9322		
92247494001	GTW-605-802-7-2	EPA 3010	MPRP/18383	EPA 6010	ICP/16506
92247494002	GTW-605-802-2-3	EPA 3010	MPRP/18383	EPA 6010	ICP/16506
92247494001	GTW-605-802-7-2	EPA 7470	MERP/7785	EPA 7470	MERC/7469
92247494002	GTW-605-802-2-3	EPA 7470	MERP/7785	EPA 7470	MERC/7469
92247494001	GTW-605-802-7-2	EPA 3510	OEXT/34764	EPA 8270	MSSV/10634
92247494002	GTW-605-802-2-3	EPA 3510	OEXT/34764	EPA 8270	MSSV/10634
92247494003	TRIP BLANK	EPA 8260	MSV/31503		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
 Document Number:
F-CHR-CS-003-rev.15

Document Revised: September 22, 2014
 Page 1 of 2
 Issuing Authority:
 Pace Huntersville Quality Office

Client Name: Haley & Alrich

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used: IR Gun T(401) Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 3.9 °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Optional
 Proj. Due Date:
 Proj. Name:
 Date and Initials of person examining contents: AP 09-15

		Comments:
Chain of Custody Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: AMB Date: 4-29-15
 SRF Review: AS Date: 043075

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92247494



92247494



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: Haley & Aldrich, Inc.
 Address: na 7466 JONES BRANCH DR.
 na, na 22102 SUITE BTD, MILEAN, VA 22102
 Email: D.SCHUBELER@HALEYALDRICH.COM
 Phone: Fax
 Requested Due Date: STANDARD TAT

Section B

Required Project Information:

Report To: Kennard, Dana / DANE SCHUBELER
 Copy To:
 Purchase Order #:
 Project Name: Buzzard Point
 Project #:

Section C

Invoice Information:

Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: nicole.benjamin@pacelabs.com
 Pace Profile #: 73102-3

Page: 1 Of 1

Regulatory Agency
 State / Location
 DC

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE Drinking Water DW Water WT Waste Water WW Product P Sol/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	
					START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	NazS2O3	Methanol	Other	Analyses Test	8015 DR0		8270 SVOC	8260 VOC	TAL Metals	PCBs by 8082	GRO 8015	DRO by 8015	GRO 8015	VOC by 8260	SVOC 8270	TAL Metals		BTEXMIN
					DATE	TIME	DATE	TIME																									
1	GTW-605-802-7-2	WT	WT	G	04/27	16:52			1	X																				92247494			
2	GTW-605-802-7-2	WT	WT	G	04/27	16:52			3			X									X									001			
3	GTW-605-802-7-2	WT	WT	G	04/27	16:52			2	X																				2nd bottle half filled			
4	GTW-605-802-7-2	WT	WT	G	04/27	16:52			1			X																					
5	GTW-605-802-2-2-2	WT	WT	G	04/27	13:25			3	X											X									002			
6	GTW-605-802-2-2-2	WT	WT	G	04/27	13:25			3			X																					
7	GTW-605-802-2-2-2	WT	WT	G	04/27	13:25			2	X																							
8	GTW-605-802-2-2-2	WT	WT	G	04/27	13:25			1			X																					
9	TRIP BLANK																													003			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Christian Tschubeler	04/28	11:39	FedEx DWH Rex Pan	04/28	12:00	
					04/29	9:30	29 V M V

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christian Tschubeler
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 04/28/15

TEMP in C
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)

May 27, 2015

Dana Kennard
Haley & Aldrich, Inc

RE: Project: Buzzard Point, Washington DC R1
Pace Project No.: 92247497

Dear Dana Kennard:

Enclosed are the analytical results for sample(s) received by the laboratory on April 29, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

This report was revised to report down to the MDL for all parameters.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Nicole Benjamin
nicole.benjamin@pacelabs.com
Project Manager

Enclosures

cc: Karin Holland
Pam Minor



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92247497001	GTW-605-802-1-2	Water	04/27/15 11:20	04/29/15 09:30
92247497002	GTW-605-802-2-2	Water	04/27/15 12:56	04/29/15 09:30
92247497003	GTW-605-802-6-2	Water	04/27/15 15:50	04/29/15 09:30
92247497005	TRIP BLANK	Water	04/27/15 00:00	04/29/15 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92247497001	GTW-605-802-1-2	EPA 8015 Modified	CMI	2	PASI-C
		EPA 5030/8015 Mod.	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8270	RES	74	PASI-C
92247497002	GTW-605-802-2-2	EPA 8015 Modified	CMI	2	PASI-C
		EPA 5030/8015 Mod.	BFW	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8270	RES	74	PASI-C
92247497003	GTW-605-802-6-2	EPA 8015 Modified	CMI	2	PASI-C
		EPA 6010	JMW	22	PASI-A
		EPA 7470	HVK	1	PASI-A
92247497005	TRIP BLANK	EPA 8260	SNP	63	PASI-C

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Buzzard Point, Washington DC R1
Pace Project No.: 92247497

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92247497001	GTW-605-802-1-2					
EPA 6010	Aluminum	3030	ug/L	100	05/01/15 15:33	
EPA 6010	Barium	33.5	ug/L	5.0	05/01/15 15:33	
EPA 6010	Beryllium	0.19J	ug/L	1.0	05/01/15 15:33	
EPA 6010	Calcium	47600	ug/L	100	05/01/15 15:33	
EPA 6010	Chromium	5.9	ug/L	5.0	05/01/15 15:33	
EPA 6010	Cobalt	28.8	ug/L	5.0	05/01/15 15:33	
EPA 6010	Copper	14.7	ug/L	5.0	05/01/15 15:33	
EPA 6010	Iron	6210	ug/L	50.0	05/01/15 15:33	
EPA 6010	Lead	6.5	ug/L	5.0	05/01/15 15:33	
EPA 6010	Magnesium	37300	ug/L	100	05/01/15 15:33	
EPA 6010	Manganese	4570	ug/L	5.0	05/01/15 15:33	
EPA 6010	Nickel	14.7	ug/L	5.0	05/01/15 15:33	
EPA 6010	Potassium	4750J	ug/L	5000	05/01/15 15:33	
EPA 6010	Sodium	208000	ug/L	50000	05/04/15 13:14	
EPA 6010	Vanadium	10.7	ug/L	5.0	05/01/15 15:33	
EPA 6010	Zinc	28.2	ug/L	10.0	05/01/15 15:33	
92247497002	GTW-605-802-2-2					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	0.62	mg/L	0.50	05/08/15 00:52	B,P2
EPA 6010	Aluminum	4580	ug/L	100	05/01/15 15:36	
EPA 6010	Antimony	8.6	ug/L	5.0	05/01/15 15:36	
EPA 6010	Arsenic	7.4J	ug/L	10.0	05/01/15 15:36	
EPA 6010	Barium	33.6	ug/L	5.0	05/01/15 15:36	
EPA 6010	Beryllium	0.31J	ug/L	1.0	05/01/15 15:36	
EPA 6010	Cadmium	0.41J	ug/L	1.0	05/01/15 15:36	
EPA 6010	Calcium	48600	ug/L	100	05/01/15 15:36	
EPA 6010	Chromium	11.7	ug/L	5.0	05/01/15 15:36	
EPA 6010	Cobalt	92.0	ug/L	5.0	05/01/15 15:36	
EPA 6010	Copper	9.5	ug/L	5.0	05/01/15 15:36	
EPA 6010	Iron	10500	ug/L	50.0	05/01/15 15:36	
EPA 6010	Lead	8.8	ug/L	5.0	05/01/15 15:36	
EPA 6010	Magnesium	46000	ug/L	100	05/01/15 15:36	
EPA 6010	Manganese	5450	ug/L	5.0	05/01/15 15:36	
EPA 6010	Nickel	35.5	ug/L	5.0	05/01/15 15:36	
EPA 6010	Potassium	2960J	ug/L	5000	05/01/15 15:36	
EPA 6010	Sodium	768000	ug/L	100000	05/04/15 13:17	
EPA 6010	Vanadium	16.0	ug/L	5.0	05/01/15 15:36	
EPA 6010	Zinc	59.3	ug/L	10.0	05/01/15 15:36	
92247497003	GTW-605-802-6-2					
EPA 8015 Modified	Diesel Range Organics(C10-C28)	1.2	mg/L	0.50	05/08/15 00:52	B,P2
EPA 6010	Aluminum	3690	ug/L	100	05/01/15 15:40	
EPA 6010	Barium	127	ug/L	5.0	05/01/15 15:40	
EPA 6010	Beryllium	0.37J	ug/L	1.0	05/01/15 15:40	
EPA 6010	Cadmium	0.097J	ug/L	1.0	05/01/15 15:40	
EPA 6010	Calcium	14000	ug/L	100	05/01/15 15:40	
EPA 6010	Chromium	8.9	ug/L	5.0	05/01/15 15:40	
EPA 6010	Cobalt	60.8	ug/L	5.0	05/01/15 15:40	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92247497003	GTW-605-802-6-2					
EPA 6010	Copper	12.1	ug/L	5.0	05/01/15 15:40	
EPA 6010	Iron	10500	ug/L	50.0	05/01/15 15:40	
EPA 6010	Lead	15.2	ug/L	5.0	05/01/15 15:40	
EPA 6010	Magnesium	15400	ug/L	100	05/01/15 15:40	
EPA 6010	Manganese	2740	ug/L	5.0	05/01/15 15:40	
EPA 6010	Nickel	18.4	ug/L	5.0	05/01/15 15:40	
EPA 6010	Sodium	252000	ug/L	50000	05/02/15 00:33	
EPA 6010	Vanadium	10.6	ug/L	5.0	05/01/15 15:40	
EPA 6010	Zinc	77.7	ug/L	10.0	05/01/15 15:40	
92247497005	TRIP BLANK					
EPA 8260	Acetone	11.6J	ug/L	25.0	05/06/15 01:54	
EPA 8260	Methylene Chloride	2.8	ug/L	2.0	05/06/15 01:54	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Sample Project No.: 92247497

Sample: GTW-605-802-1-2 Lab ID: 92247497001 Collected: 04/27/15 11:20 Received: 04/29/15 09:30 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510									
Diesel Range Organics(C10-C28)	ND	mg/L	0.50	0.10	1	05/04/15 16:00	05/08/15 00:28		
Surrogates									
n-Pentacosane (S)	80	%	48-110		1	05/04/15 16:00	05/08/15 00:28	629-99-2	
Gasoline Range Organics Analytical Method: EPA 5030/8015 Mod.									
Gas Range Organics (C6-C10)	ND	mg/L	0.080	0.016	1		05/10/15 21:34		
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-145		1		05/10/15 21:34	460-00-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Aluminum	3030	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:33	7429-90-5	
Antimony	ND	ug/L	5.0	3.9	1	04/30/15 13:40	05/01/15 15:33	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:33	7440-38-2	
Barium	33.5	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:33	7440-39-3	
Beryllium	0.19J	ug/L	1.0	0.050	1	04/30/15 13:40	05/01/15 15:33	7440-41-7	
Cadmium	ND	ug/L	1.0	0.050	1	04/30/15 13:40	05/01/15 15:33	7440-43-9	
Calcium	47600	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:33	7440-70-2	
Chromium	5.9	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:33	7440-47-3	
Cobalt	28.8	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:33	7440-48-4	
Copper	14.7	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:33	7440-50-8	
Iron	6210	ug/L	50.0	25.0	1	04/30/15 13:40	05/01/15 15:33	7439-89-6	
Lead	6.5	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:33	7439-92-1	
Magnesium	37300	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:33	7439-95-4	
Manganese	4570	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:33	7439-96-5	
Nickel	14.7	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:33	7440-02-0	
Potassium	4750J	ug/L	5000	2500	1	04/30/15 13:40	05/01/15 15:33	7440-09-7	
Selenium	ND	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:33	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:33	7440-22-4	
Sodium	208000	ug/L	50000	25000	10	04/30/15 13:40	05/04/15 13:14	7440-23-5	
Thallium	ND	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:33	7440-28-0	
Vanadium	10.7	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:33	7440-62-2	
Zinc	28.2	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:33	7440-66-6	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	ND	ug/L	0.20	0.10	1	04/30/15 18:30	05/01/15 15:39	7439-97-6	
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 13:05	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.99	1	05/04/15 17:00	05/06/15 13:05	208-96-8	
Aniline	ND	ug/L	10.0	0.80	1	05/04/15 17:00	05/06/15 13:05	62-53-3	
Anthracene	ND	ug/L	10.0	0.47	1	05/04/15 17:00	05/06/15 13:05	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.47	1	05/04/15 17:00	05/06/15 13:05	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.57	1	05/04/15 17:00	05/06/15 13:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.44	1	05/04/15 17:00	05/06/15 13:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.45	1	05/04/15 17:00	05/06/15 13:05	191-24-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1
Pace Project No.: 92247497

Sample: GTW-605-802-1-2 **Lab ID: 92247497001** Collected: 04/27/15 11:20 Received: 04/29/15 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Benzo(k)fluoranthene	ND	ug/L	10.0	0.53	1	05/04/15 17:00	05/06/15 13:05	207-08-9	
Benzoic Acid	ND	ug/L	50.0	4.9	1	05/04/15 17:00	05/06/15 13:05	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.1	1	05/04/15 17:00	05/06/15 13:05	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:05	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.48	1	05/04/15 17:00	05/06/15 13:05	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.0	1	05/04/15 17:00	05/06/15 13:05	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1.6	1	05/04/15 17:00	05/06/15 13:05	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	05/04/15 17:00	05/06/15 13:05	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.89	1	05/04/15 17:00	05/06/15 13:05	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.86	1	05/04/15 17:00	05/06/15 13:05	108-60-1	L3
2-Chloronaphthalene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:05	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:05	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 13:05	7005-72-3	
Chrysene	ND	ug/L	10.0	0.49	1	05/04/15 17:00	05/06/15 13:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.49	1	05/04/15 17:00	05/06/15 13:05	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:05	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.71	1	05/04/15 17:00	05/06/15 13:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.78	1	05/04/15 17:00	05/06/15 13:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.81	1	05/04/15 17:00	05/06/15 13:05	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	0.69	1	05/04/15 17:00	05/06/15 13:05	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	0.85	1	05/04/15 17:00	05/06/15 13:05	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.91	1	05/04/15 17:00	05/06/15 13:05	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.96	1	05/04/15 17:00	05/06/15 13:05	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.62	1	05/04/15 17:00	05/06/15 13:05	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.37	1	05/04/15 17:00	05/06/15 13:05	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1.1	1	05/04/15 17:00	05/06/15 13:05	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	2.5	1	05/04/15 17:00	05/06/15 13:05	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.92	1	05/04/15 17:00	05/06/15 13:05	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	2.1	1	05/04/15 17:00	05/06/15 13:05	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.12	1	05/04/15 17:00	05/06/15 13:05	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.49	1	05/04/15 17:00	05/06/15 13:05	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.41	1	05/04/15 17:00	05/06/15 13:05	206-44-0	
Fluorene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:05	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.90	1	05/04/15 17:00	05/06/15 13:05	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.76	1	05/04/15 17:00	05/06/15 13:05	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 13:05	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.90	1	05/04/15 17:00	05/06/15 13:05	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.53	1	05/04/15 17:00	05/06/15 13:05	193-39-5	
Isophorone	ND	ug/L	10.0	0.92	1	05/04/15 17:00	05/06/15 13:05	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.92	1	05/04/15 17:00	05/06/15 13:05	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:05	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:05		
Naphthalene	ND	ug/L	10.0	0.93	1	05/04/15 17:00	05/06/15 13:05	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1.5	1	05/04/15 17:00	05/06/15 13:05	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1.3	1	05/04/15 17:00	05/06/15 13:05	99-09-2	

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

Sample: GTW-605-802-1-2 **Lab ID: 92247497001** Collected: 04/27/15 11:20 Received: 04/29/15 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
4-Nitroaniline	ND	ug/L	20.0	1.6	1	05/04/15 17:00	05/06/15 13:05	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:05	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.71	1	05/04/15 17:00	05/06/15 13:05	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	3.9	1	05/04/15 17:00	05/06/15 13:05	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.94	1	05/04/15 17:00	05/06/15 13:05	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.85	1	05/04/15 17:00	05/06/15 13:05	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	0.64	1	05/04/15 17:00	05/06/15 13:05	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	1.2	1	05/04/15 17:00	05/06/15 13:05	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.53	1	05/04/15 17:00	05/06/15 13:05	85-01-8	
Phenol	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 13:05	108-95-2	
Pyrene	ND	ug/L	10.0	0.49	1	05/04/15 17:00	05/06/15 13:05	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.3	1	05/04/15 17:00	05/06/15 13:05	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:05	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.85	1	05/04/15 17:00	05/06/15 13:05	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	30	%	21-110		1	05/04/15 17:00	05/06/15 13:05	4165-60-0	
2-Fluorobiphenyl (S)	28	%	27-110		1	05/04/15 17:00	05/06/15 13:05	321-60-8	
Terphenyl-d14 (S)	55	%	31-107		1	05/04/15 17:00	05/06/15 13:05	1718-51-0	
Phenol-d6 (S)	16	%	10-110		1	05/04/15 17:00	05/06/15 13:05	13127-88-3	
2-Fluorophenol (S)	18	%	12-110		1	05/04/15 17:00	05/06/15 13:05	367-12-4	
2,4,6-Tribromophenol (S)	47	%	27-110		1	05/04/15 17:00	05/06/15 13:05	118-79-6	

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Sample Project No.: 92247497

Sample: GTW-605-802-2 Lab ID: 92247497002 Collected: 04/27/15 12:56 Received: 04/29/15 09:30 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510									
Diesel Range Organics(C10-C28)	0.62	mg/L	0.50	0.10	1	05/04/15 16:00	05/08/15 00:52		B,P2
Surrogates									
n-Pentacosane (S)	94	%	48-110		1	05/04/15 16:00	05/08/15 00:52	629-99-2	
Gasoline Range Organics Analytical Method: EPA 5030/8015 Mod.									
Gas Range Organics (C6-C10)	ND	mg/L	0.080	0.016	1		05/10/15 22:00		
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-145		1		05/10/15 22:00	460-00-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Aluminum	4580	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:36	7429-90-5	
Antimony	8.6	ug/L	5.0	3.9	1	04/30/15 13:40	05/01/15 15:36	7440-36-0	
Arsenic	7.4J	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:36	7440-38-2	
Barium	33.6	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:36	7440-39-3	
Beryllium	0.31J	ug/L	1.0	0.050	1	04/30/15 13:40	05/01/15 15:36	7440-41-7	
Cadmium	0.41J	ug/L	1.0	0.050	1	04/30/15 13:40	05/01/15 15:36	7440-43-9	
Calcium	48600	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:36	7440-70-2	
Chromium	11.7	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:36	7440-47-3	
Cobalt	92.0	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:36	7440-48-4	
Copper	9.5	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:36	7440-50-8	
Iron	10500	ug/L	50.0	25.0	1	04/30/15 13:40	05/01/15 15:36	7439-89-6	
Lead	8.8	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:36	7439-92-1	
Magnesium	46000	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:36	7439-95-4	
Manganese	5450	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:36	7439-96-5	
Nickel	35.5	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:36	7440-02-0	
Potassium	2960J	ug/L	5000	2500	1	04/30/15 13:40	05/01/15 15:36	7440-09-7	
Selenium	ND	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:36	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:36	7440-22-4	
Sodium	768000	ug/L	100000	50000	20	04/30/15 13:40	05/04/15 13:17	7440-23-5	
Thallium	ND	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:36	7440-28-0	
Vanadium	16.0	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:36	7440-62-2	
Zinc	59.3	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:36	7440-66-6	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	ND	ug/L	0.20	0.10	1	04/30/15 18:30	05/01/15 15:42	7439-97-6	
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 13:32	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.99	1	05/04/15 17:00	05/06/15 13:32	208-96-8	
Aniline	ND	ug/L	10.0	0.80	1	05/04/15 17:00	05/06/15 13:32	62-53-3	
Anthracene	ND	ug/L	10.0	0.47	1	05/04/15 17:00	05/06/15 13:32	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.47	1	05/04/15 17:00	05/06/15 13:32	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.57	1	05/04/15 17:00	05/06/15 13:32	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.44	1	05/04/15 17:00	05/06/15 13:32	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.45	1	05/04/15 17:00	05/06/15 13:32	191-24-2	

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

Sample: GTW-605-802-2-2 **Lab ID: 92247497002** Collected: 04/27/15 12:56 Received: 04/29/15 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Benzo(k)fluoranthene	ND	ug/L	10.0	0.53	1	05/04/15 17:00	05/06/15 13:32	207-08-9	
Benzoic Acid	ND	ug/L	50.0	4.9	1	05/04/15 17:00	05/06/15 13:32	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.1	1	05/04/15 17:00	05/06/15 13:32	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:32	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.48	1	05/04/15 17:00	05/06/15 13:32	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	2.0	1	05/04/15 17:00	05/06/15 13:32	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1.6	1	05/04/15 17:00	05/06/15 13:32	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	05/04/15 17:00	05/06/15 13:32	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.89	1	05/04/15 17:00	05/06/15 13:32	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.86	1	05/04/15 17:00	05/06/15 13:32	108-60-1	L3
2-Chloronaphthalene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:32	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:32	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 13:32	7005-72-3	
Chrysene	ND	ug/L	10.0	0.49	1	05/04/15 17:00	05/06/15 13:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.49	1	05/04/15 17:00	05/06/15 13:32	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:32	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.71	1	05/04/15 17:00	05/06/15 13:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.78	1	05/04/15 17:00	05/06/15 13:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.81	1	05/04/15 17:00	05/06/15 13:32	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	0.69	1	05/04/15 17:00	05/06/15 13:32	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	0.85	1	05/04/15 17:00	05/06/15 13:32	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.91	1	05/04/15 17:00	05/06/15 13:32	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.96	1	05/04/15 17:00	05/06/15 13:32	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.62	1	05/04/15 17:00	05/06/15 13:32	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.37	1	05/04/15 17:00	05/06/15 13:32	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1.1	1	05/04/15 17:00	05/06/15 13:32	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	2.5	1	05/04/15 17:00	05/06/15 13:32	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.92	1	05/04/15 17:00	05/06/15 13:32	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	2.1	1	05/04/15 17:00	05/06/15 13:32	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.12	1	05/04/15 17:00	05/06/15 13:32	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.49	1	05/04/15 17:00	05/06/15 13:32	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.41	1	05/04/15 17:00	05/06/15 13:32	206-44-0	
Fluorene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:32	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.90	1	05/04/15 17:00	05/06/15 13:32	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	0.76	1	05/04/15 17:00	05/06/15 13:32	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 13:32	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.90	1	05/04/15 17:00	05/06/15 13:32	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	0.53	1	05/04/15 17:00	05/06/15 13:32	193-39-5	
Isophorone	ND	ug/L	10.0	0.92	1	05/04/15 17:00	05/06/15 13:32	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	0.92	1	05/04/15 17:00	05/06/15 13:32	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:32	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:32		
Naphthalene	ND	ug/L	10.0	0.93	1	05/04/15 17:00	05/06/15 13:32	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1.5	1	05/04/15 17:00	05/06/15 13:32	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1.3	1	05/04/15 17:00	05/06/15 13:32	99-09-2	

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

Sample: GTW-605-802-2-2 **Lab ID: 92247497002** Collected: 04/27/15 12:56 Received: 04/29/15 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
4-Nitroaniline	ND	ug/L	20.0	1.6	1	05/04/15 17:00	05/06/15 13:32	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:32	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	0.71	1	05/04/15 17:00	05/06/15 13:32	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	3.9	1	05/04/15 17:00	05/06/15 13:32	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.94	1	05/04/15 17:00	05/06/15 13:32	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.85	1	05/04/15 17:00	05/06/15 13:32	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	0.64	1	05/04/15 17:00	05/06/15 13:32	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	1.2	1	05/04/15 17:00	05/06/15 13:32	87-86-5	
Phenanthrene	ND	ug/L	10.0	0.53	1	05/04/15 17:00	05/06/15 13:32	85-01-8	
Phenol	ND	ug/L	10.0	1.1	1	05/04/15 17:00	05/06/15 13:32	108-95-2	
Pyrene	ND	ug/L	10.0	0.49	1	05/04/15 17:00	05/06/15 13:32	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.3	1	05/04/15 17:00	05/06/15 13:32	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.0	1	05/04/15 17:00	05/06/15 13:32	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.85	1	05/04/15 17:00	05/06/15 13:32	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	74	%	21-110		1	05/04/15 17:00	05/06/15 13:32	4165-60-0	
2-Fluorobiphenyl (S)	72	%	27-110		1	05/04/15 17:00	05/06/15 13:32	321-60-8	
Terphenyl-d14 (S)	80	%	31-107		1	05/04/15 17:00	05/06/15 13:32	1718-51-0	
Phenol-d6 (S)	32	%	10-110		1	05/04/15 17:00	05/06/15 13:32	13127-88-3	
2-Fluorophenol (S)	39	%	12-110		1	05/04/15 17:00	05/06/15 13:32	367-12-4	
2,4,6-Tribromophenol (S)	83	%	27-110		1	05/04/15 17:00	05/06/15 13:32	118-79-6	

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

Sample: GTW-605-802-6-2 Lab ID: 92247497003 Collected: 04/27/15 15:50 Received: 04/29/15 09:30 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel Analytical Method: EPA 8015 Modified Preparation Method: EPA 3510									
Diesel Range Organics(C10-C28)	1.2	mg/L	0.50	0.10	1	05/04/15 16:00	05/08/15 00:52		B,P2
Surrogates									
n-Pentacosane (S)	88	%	48-110		1	05/04/15 16:00	05/08/15 00:52	629-99-2	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Aluminum	3690	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:40	7429-90-5	
Antimony	ND	ug/L	5.0	3.9	1	04/30/15 13:40	05/01/15 15:40	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:40	7440-38-2	
Barium	127	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:40	7440-39-3	
Beryllium	0.37J	ug/L	1.0	0.050	1	04/30/15 13:40	05/01/15 15:40	7440-41-7	
Cadmium	0.097J	ug/L	1.0	0.050	1	04/30/15 13:40	05/01/15 15:40	7440-43-9	
Calcium	14000	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:40	7440-70-2	
Chromium	8.9	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:40	7440-47-3	
Cobalt	60.8	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:40	7440-48-4	
Copper	12.1	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:40	7440-50-8	
Iron	10500	ug/L	50.0	25.0	1	04/30/15 13:40	05/01/15 15:40	7439-89-6	
Lead	15.2	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:40	7439-92-1	
Magnesium	15400	ug/L	100	50.0	1	04/30/15 13:40	05/01/15 15:40	7439-95-4	
Manganese	2740	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:40	7439-96-5	
Nickel	18.4	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:40	7440-02-0	
Potassium	ND	ug/L	5000	2500	1	04/30/15 13:40	05/01/15 15:40	7440-09-7	
Selenium	ND	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:40	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:40	7440-22-4	
Sodium	252000	ug/L	50000	25000	10	04/30/15 13:40	05/02/15 00:33	7440-23-5	
Thallium	ND	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:40	7440-28-0	
Vanadium	10.6	ug/L	5.0	2.5	1	04/30/15 13:40	05/01/15 15:40	7440-62-2	
Zinc	77.7	ug/L	10.0	5.0	1	04/30/15 13:40	05/01/15 15:40	7440-66-6	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	ND	ug/L	0.20	0.10	1	04/30/15 18:30	05/01/15 15:44	7439-97-6	

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Sample Project No.: 92247497

Sample: TRIP BLANK Lab ID: 92247497005 Collected: 04/27/15 00:00 Received: 04/29/15 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level Analytical Method: EPA 8260									
Acetone	11.6J	ug/L	25.0	10.0	1		05/06/15 01:54	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		05/06/15 01:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		05/06/15 01:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		05/06/15 01:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/06/15 01:54	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		05/06/15 01:54	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		05/06/15 01:54	74-83-9	L3
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		05/06/15 01:54	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/06/15 01:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		05/06/15 01:54	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		05/06/15 01:54	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		05/06/15 01:54	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/06/15 01:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		05/06/15 01:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		05/06/15 01:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		05/06/15 01:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		05/06/15 01:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/06/15 01:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		05/06/15 01:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		05/06/15 01:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		05/06/15 01:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/06/15 01:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		05/06/15 01:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		05/06/15 01:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/06/15 01:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		05/06/15 01:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		05/06/15 01:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		05/06/15 01:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/06/15 01:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		05/06/15 01:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		05/06/15 01:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		05/06/15 01:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/06/15 01:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/06/15 01:54	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		05/06/15 01:54	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/06/15 01:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		05/06/15 01:54	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		05/06/15 01:54	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		05/06/15 01:54	99-87-6	
Methylene Chloride	2.8	ug/L	2.0	0.97	1		05/06/15 01:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		05/06/15 01:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		05/06/15 01:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		05/06/15 01:54	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		05/06/15 01:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		05/06/15 01:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		05/06/15 01:54	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

Sample: TRIP BLANK **Lab ID: 92247497005** Collected: 04/27/15 00:00 Received: 04/29/15 09:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level									
Analytical Method: EPA 8260									
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/06/15 01:54	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/06/15 01:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		05/06/15 01:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		05/06/15 01:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/06/15 01:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/06/15 01:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/06/15 01:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/06/15 01:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/06/15 01:54	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		05/06/15 01:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/06/15 01:54	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/06/15 01:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/06/15 01:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		05/06/15 01:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		05/06/15 01:54	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		05/06/15 01:54	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/06/15 01:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

QC Batch: GCV/9322 Analysis Method: EPA 5030/8015 Mod.
QC Batch Method: EPA 5030/8015 Mod. Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92247497001, 92247497002

METHOD BLANK: 1455244 Matrix: Water

Associated Lab Samples: 92247497001, 92247497002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	0.080	05/10/15 16:52	
4-Bromofluorobenzene (S)	%	100	70-145	05/10/15 16:52	

LABORATORY CONTROL SAMPLE: 1455245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	1	0.95	95	70-150	
4-Bromofluorobenzene (S)	%			101	70-145	

MATRIX SPIKE SAMPLE: 1455246

Parameter	Units	92248374003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	1	0.28	27	70-150	M0
4-Bromofluorobenzene (S)	%				112	70-145	

SAMPLE DUPLICATE: 1455247

Parameter	Units	92248374004 Result	Dup Result	RPD	Max RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	ND		30	
4-Bromofluorobenzene (S)	%	112	106	5		

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

QC Batch: MERP/7785 Analysis Method: EPA 7470
 QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
 Associated Lab Samples: 92247497001, 92247497002, 92247497003

METHOD BLANK: 1447468 Matrix: Water
 Associated Lab Samples: 92247497001, 92247497002, 92247497003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/01/15 14:50	

LABORATORY CONTROL SAMPLE: 1447469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1447470 1447471

Parameter	Units	92246735035		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Mercury	ug/L	ND	2.5	2.5	2.4	2.4	96	96	75-125	0	25		

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

QC Batch: MPRP/18383 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET
 Associated Lab Samples: 92247497001, 92247497002, 92247497003

METHOD BLANK: 1447194 Matrix: Water

Associated Lab Samples: 92247497001, 92247497002, 92247497003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	100	05/01/15 14:10	
Antimony	ug/L	ND	5.0	05/01/15 14:10	
Arsenic	ug/L	ND	10.0	05/01/15 14:10	
Barium	ug/L	ND	5.0	05/01/15 14:10	
Beryllium	ug/L	0.078J	1.0	05/01/15 14:10	
Cadmium	ug/L	0.072J	1.0	05/01/15 14:10	
Calcium	ug/L	ND	100	05/01/15 14:10	
Chromium	ug/L	ND	5.0	05/01/15 14:10	
Cobalt	ug/L	ND	5.0	05/01/15 14:10	
Copper	ug/L	ND	5.0	05/01/15 14:10	
Iron	ug/L	ND	50.0	05/01/15 14:10	
Lead	ug/L	ND	5.0	05/01/15 14:10	
Magnesium	ug/L	ND	100	05/01/15 14:10	
Manganese	ug/L	ND	5.0	05/01/15 14:10	
Nickel	ug/L	ND	5.0	05/01/15 14:10	
Potassium	ug/L	ND	5000	05/01/15 14:10	
Selenium	ug/L	ND	10.0	05/01/15 14:10	
Silver	ug/L	ND	5.0	05/01/15 14:10	
Sodium	ug/L	ND	5000	05/04/15 12:56	
Thallium	ug/L	ND	10.0	05/01/15 14:10	
Vanadium	ug/L	ND	5.0	05/01/15 14:10	
Zinc	ug/L	8.9J	10.0	05/01/15 14:10	

LABORATORY CONTROL SAMPLE: 1447195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	4800	96	80-120	
Antimony	ug/L	500	496	99	80-120	
Arsenic	ug/L	500	478	96	80-120	
Barium	ug/L	500	480	96	80-120	
Beryllium	ug/L	500	476	95	80-120	
Cadmium	ug/L	500	479	96	80-120	
Calcium	ug/L	5000	4640	93	80-120	
Chromium	ug/L	500	473	95	80-120	
Cobalt	ug/L	500	483	97	80-120	
Copper	ug/L	500	491	98	80-120	
Iron	ug/L	5000	4700	94	80-120	
Lead	ug/L	500	479	96	80-120	
Magnesium	ug/L	5000	4630	93	80-120	
Manganese	ug/L	500	462	92	80-120	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

LABORATORY CONTROL SAMPLE: 1447195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nickel	ug/L	500	471	94	80-120	
Potassium	ug/L	5000	4850J	97	80-120	
Selenium	ug/L	500	473	95	80-120	
Silver	ug/L	250	239	96	80-120	
Sodium	ug/L	5000	5140	103	80-120	
Thallium	ug/L	500	474	95	80-120	
Vanadium	ug/L	500	471	94	80-120	
Zinc	ug/L	500	466	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1447196 1447197

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92247303001 Result	Spike Conc.	Spike Conc.	MSD Result							
Aluminum	ug/L	ND	5000	5000	4840	4870	97	97	75-125	1	20	
Antimony	ug/L	ND	500	500	505	504	100	100	75-125	0	20	
Arsenic	ug/L	ND	500	500	491	489	98	98	75-125	0	20	
Barium	ug/L	102	500	500	578	582	95	96	75-125	1	20	
Beryllium	ug/L	ND	500	500	477	480	95	96	75-125	1	20	
Cadmium	ug/L	ND	500	500	484	485	97	97	75-125	0	20	
Calcium	ug/L	97600	5000	5000	104000	103000	138	116	75-125	1	20	M6
Chromium	ug/L	ND	500	500	470	473	94	94	75-125	1	20	
Cobalt	ug/L	ND	500	500	468	468	94	94	75-125	0	20	
Copper	ug/L	ND	500	500	494	496	99	99	75-125	1	20	
Iron	ug/L	790	5000	5000	5420	5450	93	93	75-125	0	20	
Lead	ug/L	ND	500	500	469	470	94	94	75-125	0	20	
Magnesium	ug/L	37800	5000	5000	42000	42100	84	86	75-125	0	20	
Manganese	ug/L	8.9	500	500	463	467	91	92	75-125	1	20	
Nickel	ug/L	ND	500	500	456	456	91	91	75-125	0	20	
Potassium	ug/L	ND	5000	5000	6970	6980	98	98	75-125	0	20	
Selenium	ug/L	ND	500	500	481	481	96	96	75-125	0	20	
Silver	ug/L	ND	250	250	241	243	96	97	75-125	1	20	
Sodium	ug/L	6580	5000	5000	11700	11700	103	103	75-125	0	20	
Thallium	ug/L	ND	500	500	462	468	92	93	75-125	1	20	
Vanadium	ug/L	ND	500	500	473	476	95	95	75-125	1	20	
Zinc	ug/L	6.3J	500	500	458	459	90	91	75-125	0	20	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

QC Batch: MSV/31503

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92247497005

METHOD BLANK: 1450549

Matrix: Water

Associated Lab Samples: 92247497005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/05/15 20:51	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/05/15 20:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/05/15 20:51	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/05/15 20:51	
1,1-Dichloroethane	ug/L	ND	1.0	05/05/15 20:51	
1,1-Dichloroethene	ug/L	ND	1.0	05/05/15 20:51	
1,1-Dichloropropene	ug/L	ND	1.0	05/05/15 20:51	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/05/15 20:51	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/05/15 20:51	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/05/15 20:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/05/15 20:51	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/05/15 20:51	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/05/15 20:51	
1,2-Dichloroethane	ug/L	ND	1.0	05/05/15 20:51	
1,2-Dichloropropane	ug/L	ND	1.0	05/05/15 20:51	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/05/15 20:51	
1,3-Dichloropropane	ug/L	ND	1.0	05/05/15 20:51	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/05/15 20:51	
2,2-Dichloropropane	ug/L	ND	1.0	05/05/15 20:51	
2-Butanone (MEK)	ug/L	ND	5.0	05/05/15 20:51	
2-Chlorotoluene	ug/L	ND	1.0	05/05/15 20:51	
2-Hexanone	ug/L	ND	5.0	05/05/15 20:51	
4-Chlorotoluene	ug/L	ND	1.0	05/05/15 20:51	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/05/15 20:51	
Acetone	ug/L	ND	25.0	05/05/15 20:51	
Benzene	ug/L	ND	1.0	05/05/15 20:51	
Bromobenzene	ug/L	ND	1.0	05/05/15 20:51	
Bromochloromethane	ug/L	ND	1.0	05/05/15 20:51	
Bromodichloromethane	ug/L	ND	1.0	05/05/15 20:51	
Bromoform	ug/L	ND	1.0	05/05/15 20:51	
Bromomethane	ug/L	ND	2.0	05/05/15 20:51	
Carbon tetrachloride	ug/L	ND	1.0	05/05/15 20:51	
Chlorobenzene	ug/L	ND	1.0	05/05/15 20:51	
Chloroethane	ug/L	ND	1.0	05/05/15 20:51	
Chloroform	ug/L	ND	1.0	05/05/15 20:51	
Chloromethane	ug/L	ND	1.0	05/05/15 20:51	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/05/15 20:51	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/05/15 20:51	
Dibromochloromethane	ug/L	ND	1.0	05/05/15 20:51	
Dibromomethane	ug/L	ND	1.0	05/05/15 20:51	
Dichlorodifluoromethane	ug/L	ND	1.0	05/05/15 20:51	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

METHOD BLANK: 1450549

Matrix: Water

Associated Lab Samples: 92247497005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	05/05/15 20:51	
Ethylbenzene	ug/L	ND	1.0	05/05/15 20:51	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/05/15 20:51	
m&p-Xylene	ug/L	ND	2.0	05/05/15 20:51	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/05/15 20:51	
Methylene Chloride	ug/L	1.6J	2.0	05/05/15 20:51	
Naphthalene	ug/L	ND	1.0	05/05/15 20:51	
o-Xylene	ug/L	ND	1.0	05/05/15 20:51	
p-Isopropyltoluene	ug/L	ND	1.0	05/05/15 20:51	
Styrene	ug/L	ND	1.0	05/05/15 20:51	
Tetrachloroethene	ug/L	ND	1.0	05/05/15 20:51	
Toluene	ug/L	ND	1.0	05/05/15 20:51	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/05/15 20:51	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/05/15 20:51	
Trichloroethene	ug/L	ND	1.0	05/05/15 20:51	
Trichlorofluoromethane	ug/L	ND	1.0	05/05/15 20:51	
Vinyl acetate	ug/L	ND	2.0	05/05/15 20:51	
Vinyl chloride	ug/L	ND	1.0	05/05/15 20:51	
Xylene (Total)	ug/L	ND	2.0	05/05/15 20:51	
1,2-Dichloroethane-d4 (S)	%	83	70-130	05/05/15 20:51	
4-Bromofluorobenzene (S)	%	98	70-130	05/05/15 20:51	
Toluene-d8 (S)	%	98	70-130	05/05/15 20:51	

LABORATORY CONTROL SAMPLE: 1450550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.4	113	70-130	
1,1,1-Trichloroethane	ug/L	50	50.4	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	58.1	116	70-130	
1,1,2-Trichloroethane	ug/L	50	54.6	109	70-130	
1,1-Dichloroethane	ug/L	50	56.8	114	70-130	
1,1-Dichloroethene	ug/L	50	50.1	100	70-132	
1,1-Dichloropropene	ug/L	50	58.4	117	70-130	
1,2,3-Trichlorobenzene	ug/L	50	59.9	120	70-135	
1,2,3-Trichloropropane	ug/L	50	53.3	107	70-130	
1,2,4-Trichlorobenzene	ug/L	50	61.1	122	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	55.0	110	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	59.0	118	70-130	
1,2-Dichlorobenzene	ug/L	50	57.3	115	70-130	
1,2-Dichloroethane	ug/L	50	48.2	96	70-130	
1,2-Dichloropropane	ug/L	50	58.3	117	70-130	
1,3-Dichlorobenzene	ug/L	50	58.5	117	70-130	
1,3-Dichloropropane	ug/L	50	56.1	112	70-130	
1,4-Dichlorobenzene	ug/L	50	57.8	116	70-130	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

LABORATORY CONTROL SAMPLE: 1450550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	55.1	110	58-145	
2-Butanone (MEK)	ug/L	100	117	117	70-145	
2-Chlorotoluene	ug/L	50	54.8	110	70-130	
2-Hexanone	ug/L	100	117	117	70-144	
4-Chlorotoluene	ug/L	50	54.9	110	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	70-140	
Acetone	ug/L	100	103	103	50-175	
Benzene	ug/L	50	58.4	117	70-130	
Bromobenzene	ug/L	50	57.1	114	70-130	
Bromochloromethane	ug/L	50	58.3	117	70-130	
Bromodichloromethane	ug/L	50	47.3	95	70-130	
Bromoform	ug/L	50	44.1	88	70-130	
Bromomethane	ug/L	50	69.6	139	54-130	L0
Carbon tetrachloride	ug/L	50	50.6	101	70-132	
Chlorobenzene	ug/L	50	58.2	116	70-130	
Chloroethane	ug/L	50	57.8	116	64-134	
Chloroform	ug/L	50	47.4	95	70-130	
Chloromethane	ug/L	50	58.1	116	64-130	
cis-1,2-Dichloroethene	ug/L	50	56.8	114	70-131	
cis-1,3-Dichloropropene	ug/L	50	60.9	122	70-130	
Dibromochloromethane	ug/L	50	50.5	101	70-130	
Dibromomethane	ug/L	50	52.7	105	70-131	
Dichlorodifluoromethane	ug/L	50	50.2	100	56-130	
Diisopropyl ether	ug/L	50	62.8	126	70-130	
Ethylbenzene	ug/L	50	55.8	112	70-130	
Hexachloro-1,3-butadiene	ug/L	50	61.8	124	70-130	
m&p-Xylene	ug/L	100	112	112	70-130	
Methyl-tert-butyl ether	ug/L	50	53.6	107	70-130	
Methylene Chloride	ug/L	50	54.0	108	63-130	
Naphthalene	ug/L	50	61.2	122	70-138	
o-Xylene	ug/L	50	55.8	112	70-130	
p-Isopropyltoluene	ug/L	50	62.9	126	70-130	
Styrene	ug/L	50	59.0	118	70-130	
Tetrachloroethene	ug/L	50	55.3	111	70-130	
Toluene	ug/L	50	57.4	115	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.2	108	70-130	
trans-1,3-Dichloropropene	ug/L	50	58.2	116	70-132	
Trichloroethene	ug/L	50	54.0	108	70-130	
Trichlorofluoromethane	ug/L	50	46.6	93	62-133	
Vinyl acetate	ug/L	100	119	119	66-157	
Vinyl chloride	ug/L	50	64.1	128	50-150	
Xylene (Total)	ug/L	150	168	112	70-130	
1,2-Dichloroethane-d4 (S)	%			81	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

MATRIX SPIKE SAMPLE: 1450551		92247961001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	24.0	120	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	24.8	124	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	22.9	114	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	22.6	113	70-130	
1,1-Dichloroethane	ug/L	ND	20	23.6	118	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.7	119	70-166	
1,1-Dichloropropene	ug/L	ND	20	26.4	132	70-130	M1
1,2,3-Trichlorobenzene	ug/L	ND	20	24.1	121	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	23.6	118	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	24.0	120	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	23.3	116	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	23.5	118	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	23.9	120	70-130	
1,2-Dichloroethane	ug/L	ND	20	22.3	112	70-130	
1,2-Dichloropropane	ug/L	ND	20	23.2	116	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	24.0	120	70-130	
1,3-Dichloropropane	ug/L	ND	20	23.1	116	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	24.2	121	70-130	
2,2-Dichloropropane	ug/L	ND	20	25.1	126	70-130	
2-Butanone (MEK)	ug/L	ND	40	41.5	104	70-130	
2-Chlorotoluene	ug/L	ND	20	25.9	130	70-130	
2-Hexanone	ug/L	ND	40	43.9	110	70-130	
4-Chlorotoluene	ug/L	ND	20	24.1	121	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	42.9	107	70-130	
Acetone	ug/L	ND	40	39.4	94	70-130	
Benzene	ug/L	ND	20	24.8	124	70-148	
Bromobenzene	ug/L	ND	20	24.2	121	70-130	
Bromochloromethane	ug/L	ND	20	25.0	125	70-130	
Bromodichloromethane	ug/L	ND	20	21.7	109	70-130	
Bromoform	ug/L	ND	20	21.3	106	70-130	
Bromomethane	ug/L	ND	20	32.2	161	70-130	M0
Carbon tetrachloride	ug/L	ND	20	27.7	138	70-130	M1
Chlorobenzene	ug/L	ND	20	24.2	121	70-146	
Chloroethane	ug/L	ND	20	22.0	110	70-130	
Chloroform	ug/L	ND	20	21.9	110	70-130	
Chloromethane	ug/L	ND	20	22.0	110	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	23.5	118	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	23.5	118	70-130	
Dibromochloromethane	ug/L	ND	20	22.7	114	70-130	
Dibromomethane	ug/L	ND	20	23.1	115	70-130	
Dichlorodifluoromethane	ug/L	ND	20	18.0	90	70-130	
Diisopropyl ether	ug/L	ND	20	22.8	114	70-130	
Ethylbenzene	ug/L	ND	20	25.1	125	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	29.4	147	70-130	M1
m&p-Xylene	ug/L	ND	40	50.0	125	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	22.0	110	70-130	
Methylene Chloride	ug/L	ND	20	21.4	103	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

MATRIX SPIKE SAMPLE: 1450551		92247961001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L	ND	20	23.6	118	70-130	
o-Xylene	ug/L	ND	20	25.0	125	70-130	
p-Isopropyltoluene	ug/L	ND	20	25.7	128	70-130	
Styrene	ug/L	ND	20	24.9	125	70-130	
Tetrachloroethene	ug/L	ND	20	25.5	128	70-130	
Toluene	ug/L	ND	20	24.5	123	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	23.6	118	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	23.8	119	70-130	
Trichloroethene	ug/L	ND	20	25.8	129	69-151	
Trichlorofluoromethane	ug/L	ND	20	23.4	117	70-130	
Vinyl acetate	ug/L	ND	40	43.3	108	70-130	
Vinyl chloride	ug/L	ND	20	22.9	115	70-130	
1,2-Dichloroethane-d4 (S)	%				96	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1450552

Parameter	Units	92247961002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

SAMPLE DUPLICATE: 1450552

Parameter	Units	92247961002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	2.5	2.7	8	30	
Toluene	ug/L	0.40	0.41J		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	112	101	10		
4-Bromofluorobenzene (S)	%	103	105	1		
Toluene-d8 (S)	%	98	100	1		

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

QC Batch: OEXT/34762 Analysis Method: EPA 8015 Modified

QC Batch Method: EPA 3510 Analysis Description: 8015 GCS

Associated Lab Samples: 92247497001, 92247497002, 92247497003

METHOD BLANK: 1449565 Matrix: Water

Associated Lab Samples: 92247497001, 92247497002, 92247497003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/L	0.71	0.50	05/07/15 23:41	
n-Pentacosane (S)	%	88	48-110	05/07/15 23:41	

LABORATORY CONTROL SAMPLE & LCSD: 1449566

1449567

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics(C10-C28)	mg/L	10	6.1	6.2	61	62	41-114	2	30	
n-Pentacosane (S)	%				96	95	48-110			

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

QC Batch: OEXT/34764

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 Water MSSV

Associated Lab Samples: 92247497001, 92247497002

METHOD BLANK: 1449638

Matrix: Water

Associated Lab Samples: 92247497001, 92247497002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	05/06/15 09:27	
1,2-Dichlorobenzene	ug/L	ND	10.0	05/06/15 09:27	
1,3-Dichlorobenzene	ug/L	ND	10.0	05/06/15 09:27	
1,4-Dichlorobenzene	ug/L	ND	10.0	05/06/15 09:27	
1-Methylnaphthalene	ug/L	ND	10.0	05/06/15 09:27	
2,4,5-Trichlorophenol	ug/L	ND	10.0	05/06/15 09:27	
2,4,6-Trichlorophenol	ug/L	ND	10.0	05/06/15 09:27	
2,4-Dichlorophenol	ug/L	ND	10.0	05/06/15 09:27	
2,4-Dimethylphenol	ug/L	ND	10.0	05/06/15 09:27	
2,4-Dinitrophenol	ug/L	ND	50.0	05/06/15 09:27	
2,4-Dinitrotoluene	ug/L	ND	10.0	05/06/15 09:27	
2,6-Dinitrotoluene	ug/L	ND	10.0	05/06/15 09:27	
2-Chloronaphthalene	ug/L	ND	10.0	05/06/15 09:27	
2-Chlorophenol	ug/L	ND	10.0	05/06/15 09:27	
2-Methylnaphthalene	ug/L	ND	10.0	05/06/15 09:27	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	05/06/15 09:27	
2-Nitroaniline	ug/L	ND	50.0	05/06/15 09:27	
2-Nitrophenol	ug/L	ND	10.0	05/06/15 09:27	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	05/06/15 09:27	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/06/15 09:27	
3-Nitroaniline	ug/L	ND	50.0	05/06/15 09:27	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	05/06/15 09:27	
4-Bromophenylphenyl ether	ug/L	ND	10.0	05/06/15 09:27	
4-Chloro-3-methylphenol	ug/L	ND	20.0	05/06/15 09:27	
4-Chloroaniline	ug/L	ND	20.0	05/06/15 09:27	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	05/06/15 09:27	
4-Nitroaniline	ug/L	ND	20.0	05/06/15 09:27	
4-Nitrophenol	ug/L	ND	50.0	05/06/15 09:27	
Acenaphthene	ug/L	ND	10.0	05/06/15 09:27	
Acenaphthylene	ug/L	ND	10.0	05/06/15 09:27	
Aniline	ug/L	ND	10.0	05/06/15 09:27	
Anthracene	ug/L	ND	10.0	05/06/15 09:27	
Benzo(a)anthracene	ug/L	ND	10.0	05/06/15 09:27	
Benzo(a)pyrene	ug/L	ND	10.0	05/06/15 09:27	
Benzo(b)fluoranthene	ug/L	ND	10.0	05/06/15 09:27	
Benzo(g,h,i)perylene	ug/L	ND	10.0	05/06/15 09:27	
Benzo(k)fluoranthene	ug/L	ND	10.0	05/06/15 09:27	
Benzoic Acid	ug/L	ND	50.0	05/06/15 09:27	
Benzyl alcohol	ug/L	ND	20.0	05/06/15 09:27	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	05/06/15 09:27	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	05/06/15 09:27	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

METHOD BLANK: 1449638

Matrix: Water

Associated Lab Samples: 92247497001, 92247497002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	05/06/15 09:27	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	05/06/15 09:27	
Butylbenzylphthalate	ug/L	ND	10.0	05/06/15 09:27	
Chrysene	ug/L	ND	10.0	05/06/15 09:27	
Di-n-butylphthalate	ug/L	ND	10.0	05/06/15 09:27	
Di-n-octylphthalate	ug/L	ND	10.0	05/06/15 09:27	
Dibenz(a,h)anthracene	ug/L	ND	10.0	05/06/15 09:27	
Dibenzofuran	ug/L	ND	10.0	05/06/15 09:27	
Diethylphthalate	ug/L	ND	10.0	05/06/15 09:27	
Dimethylphthalate	ug/L	ND	10.0	05/06/15 09:27	
Fluoranthene	ug/L	ND	10.0	05/06/15 09:27	
Fluorene	ug/L	ND	10.0	05/06/15 09:27	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	05/06/15 09:27	
Hexachlorobenzene	ug/L	ND	10.0	05/06/15 09:27	
Hexachlorocyclopentadiene	ug/L	ND	10.0	05/06/15 09:27	
Hexachloroethane	ug/L	ND	10.0	05/06/15 09:27	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	05/06/15 09:27	
Isophorone	ug/L	ND	10.0	05/06/15 09:27	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	05/06/15 09:27	
N-Nitrosodimethylamine	ug/L	ND	10.0	05/06/15 09:27	
N-Nitrosodiphenylamine	ug/L	ND	10.0	05/06/15 09:27	
Naphthalene	ug/L	ND	10.0	05/06/15 09:27	
Nitrobenzene	ug/L	ND	10.0	05/06/15 09:27	
Pentachlorophenol	ug/L	ND	25.0	05/06/15 09:27	
Phenanthrene	ug/L	ND	10.0	05/06/15 09:27	
Phenol	ug/L	ND	10.0	05/06/15 09:27	
Pyrene	ug/L	ND	10.0	05/06/15 09:27	
2,4,6-Tribromophenol (S)	%	79	27-110	05/06/15 09:27	
2-Fluorobiphenyl (S)	%	70	27-110	05/06/15 09:27	
2-Fluorophenol (S)	%	40	12-110	05/06/15 09:27	
Nitrobenzene-d5 (S)	%	77	21-110	05/06/15 09:27	
Phenol-d6 (S)	%	32	10-110	05/06/15 09:27	
Terphenyl-d14 (S)	%	83	31-107	05/06/15 09:27	

LABORATORY CONTROL SAMPLE: 1449639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	26.9	54	31-120	
1,2-Dichlorobenzene	ug/L	50	36.0	72	38-120	
1,3-Dichlorobenzene	ug/L	50	32.3	65	30-122	
1,4-Dichlorobenzene	ug/L	50	34.0	68	37-120	
1-Methylnaphthalene	ug/L	50	33.2	66	34-113	
2,4,5-Trichlorophenol	ug/L	50	46.7	93	43-113	
2,4,6-Trichlorophenol	ug/L	50	47.5	95	42-120	

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

LABORATORY CONTROL SAMPLE: 1449639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dichlorophenol	ug/L	50	35.8	72	30-120	
2,4-Dimethylphenol	ug/L	50	33.8	68	29-111	
2,4-Dinitrophenol	ug/L	250	230	92	19-132	
2,4-Dinitrotoluene	ug/L	50	49.2	98	58-128	
2,6-Dinitrotoluene	ug/L	50	48.2	96	54-129	
2-Chloronaphthalene	ug/L	50	39.3	79	43-117	
2-Chlorophenol	ug/L	50	42.4	85	37-120	
2-Methylnaphthalene	ug/L	50	29.4	59	33-120	
2-Methylphenol(o-Cresol)	ug/L	50	39.7	79	31-120	
2-Nitroaniline	ug/L	100	120	120	48-121	
2-Nitrophenol	ug/L	50	34.8	70	25-116	
3&4-Methylphenol(m&p Cresol)	ug/L	50	35.1	70	23-120	
3,3'-Dichlorobenzidine	ug/L	100	84.8	85	10-154	
3-Nitroaniline	ug/L	100	101	101	43-115	
4,6-Dinitro-2-methylphenol	ug/L	100	94.6	95	44-124	
4-Bromophenylphenyl ether	ug/L	50	40.2	80	34-113	
4-Chloro-3-methylphenol	ug/L	100	77.7	78	31-110	
4-Chloroaniline	ug/L	100	68.1	68	20-120	
4-Chlorophenylphenyl ether	ug/L	50	43.4	87	34-116	
4-Nitroaniline	ug/L	100	109	109	46-128	
4-Nitrophenol	ug/L	250	111	44	11-120	
Acenaphthene	ug/L	50	44.2	88	48-114	
Acenaphthylene	ug/L	50	42.4	85	48-112	
Aniline	ug/L	50	34.7	69	26-120	
Anthracene	ug/L	50	45.5	91	57-118	
Benzo(a)anthracene	ug/L	50	41.8	84	56-121	
Benzo(a)pyrene	ug/L	50	43.1	86	55-127	
Benzo(b)fluoranthene	ug/L	50	42.5	85	53-128	
Benzo(g,h,i)perylene	ug/L	50	44.7	89	54-125	
Benzo(k)fluoranthene	ug/L	50	41.4	83	51-123	
Benzoic Acid	ug/L	250	74.5	30	10-120	
Benzyl alcohol	ug/L	100	85.7	86	27-120	
bis(2-Chloroethoxy)methane	ug/L	50	38.7	77	32-120	
bis(2-Chloroethyl) ether	ug/L	50	49.6	99	33-111	
bis(2-Chloroisopropyl) ether	ug/L	50	60.5	121	15-120	L0
bis(2-Ethylhexyl)phthalate	ug/L	50	51.5	103	50-145	
Butylbenzylphthalate	ug/L	50	51.3	103	54-138	
Chrysene	ug/L	50	42.7	85	58-127	
Di-n-butylphthalate	ug/L	50	55.0	110	56-125	
Di-n-octylphthalate	ug/L	50	53.5	107	50-134	
Dibenz(a,h)anthracene	ug/L	50	44.9	90	53-129	
Dibenzofuran	ug/L	50	44.8	90	45-120	
Diethylphthalate	ug/L	50	54.5	109	53-120	
Dimethylphthalate	ug/L	50	51.3	103	55-116	
Fluoranthene	ug/L	50	44.1	88	57-125	
Fluorene	ug/L	50	45.6	91	53-118	
Hexachloro-1,3-butadiene	ug/L	50	24.6	49	23-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

LABORATORY CONTROL SAMPLE: 1449639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorobenzene	ug/L	50	37.8	76	49-116	
Hexachlorocyclopentadiene	ug/L	50	23.0	46	26-158	
Hexachloroethane	ug/L	50	34.1	68	30-114	
Indeno(1,2,3-cd)pyrene	ug/L	50	43.9	88	55-128	
Isophorone	ug/L	50	40.1	80	31-118	
N-Nitroso-di-n-propylamine	ug/L	50	57.8	116	32-119	
N-Nitrosodimethylamine	ug/L	50	25.6	51	13-120	
N-Nitrosodiphenylamine	ug/L	50	45.0	90	43-120	
Naphthalene	ug/L	50	30.6	61	32-120	
Nitrobenzene	ug/L	50	38.3	77	33-110	
Pentachlorophenol	ug/L	100	87.7	88	10-137	
Phenanthrene	ug/L	50	45.4	91	57-117	
Phenol	ug/L	50	23.5	47	10-120	
Pyrene	ug/L	50	40.9	82	55-122	
2,4,6-Tribromophenol (S)	%			88	27-110	
2-Fluorobiphenyl (S)	%			78	27-110	
2-Fluorophenol (S)	%			46	12-110	
Nitrobenzene-d5 (S)	%			70	21-110	
Phenol-d6 (S)	%			39	10-110	
Terphenyl-d14 (S)	%			87	31-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1449640 1449641

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92247303004 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2,4-Trichlorobenzene	ug/L	ND	100	100	58.8	57.5	59	58	10-110	2	30	
1,2-Dichlorobenzene	ug/L	ND	100	100	70.6	74.5	71	74	10-110	5	30	
1,3-Dichlorobenzene	ug/L	ND	100	100	67.9	69.8	68	70	10-110	3	30	
1,4-Dichlorobenzene	ug/L	ND	100	100	70.2	72.5	70	72	10-110	3	30	
1-Methylnaphthalene	ug/L	ND	100	100	63.5	65.9	63	66	14-110	4	30	
2,4,5-Trichlorophenol	ug/L	ND	100	100	91.1	90.5	91	91	19-105	1	30	
2,4,6-Trichlorophenol	ug/L	ND	100	100	90.7	89.5	91	89	13-108	1	30	
2,4-Dichlorophenol	ug/L	ND	100	100	68.3	67.2	68	67	29-111	2	30	
2,4-Dimethylphenol	ug/L	ND	100	100	65.2	66.9	65	67	21-103	2	30	
2,4-Dinitrophenol	ug/L	ND	500	500	351	427	70	85	10-109	19	30	
2,4-Dinitrotoluene	ug/L	ND	100	100	93.4	92.5	93	92	27-104	1	30	
2,6-Dinitrotoluene	ug/L	ND	100	100	91.3	90.7	91	91	28-101	1	30	
2-Chloronaphthalene	ug/L	ND	100	100	77.7	74.8	78	75	14-102	4	30	
2-Chlorophenol	ug/L	ND	100	100	74.5	81.2	75	81	16-110	9	30	
2-Methylnaphthalene	ug/L	ND	100	100	56.5	58.4	57	58	13-110	3	30	
2-Methylphenol(o-Cresol)	ug/L	ND	100	100	70.6	78.9	71	79	19-110	11	30	
2-Nitroaniline	ug/L	ND	200	200	225	219	112	110	26-103	3	30	M1
2-Nitrophenol	ug/L	ND	100	100	62.8	63.6	63	64	20-110	1	30	
3&4-Methylphenol(m&p Cresol)	ug/L	4.0J	100	100	74.3	80.1	70	76	20-110	7	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

Parameter	Units	92247303004		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual	
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec								
MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			1449640														
3,3'-Dichlorobenzidine	ug/L	ND	200	200	117	113	59	56	25-112	4	30						
3-Nitroaniline	ug/L	ND	200	200	193	186	96	93	29-110	3	30						
4,6-Dinitro-2-methylphenol	ug/L	ND	200	200	171	168	86	84	10-117	2	30						
4-Bromophenylphenyl ether	ug/L	ND	100	100	76.0	69.2	76	69	20-105	9	30						
4-Chloro-3-methylphenol	ug/L	ND	200	200	154	155	77	78	22-110	0	30						
4-Chloroaniline	ug/L	ND	200	200	122	124	61	62	20-100	2	30						
4-Chlorophenylphenyl ether	ug/L	ND	100	100	82.5	80.0	83	80	19-102	3	30						
4-Nitroaniline	ug/L	ND	200	200	222	221	111	110	29-110	1	30	M1					
4-Nitrophenol	ug/L	ND	500	500	275	324	55	65	10-110	16	30						
Acenaphthene	ug/L	ND	100	100	83.4	81.0	83	81	17-100	3	30						
Acenaphthylene	ug/L	ND	100	100	80.4	78.9	80	79	21-100	2	30						
Aniline	ug/L	ND	100	100	65.4	69.2	65	69	10-110	6	30						
Anthracene	ug/L	ND	100	100	86.7	82.3	87	82	24-109	5	30						
Benzo(a)anthracene	ug/L	ND	100	100	78.1	73.5	78	74	22-117	6	30						
Benzo(a)pyrene	ug/L	ND	100	100	82.7	76.4	83	76	23-104	8	30						
Benzo(b)fluoranthene	ug/L	ND	100	100	82.1	77.0	82	77	23-103	6	30						
Benzo(g,h,i)perylene	ug/L	ND	100	100	87.4	81.1	87	81	18-111	8	30						
Benzo(k)fluoranthene	ug/L	ND	100	100	77.8	73.5	78	74	22-113	6	30						
Benzoic Acid	ug/L	ND	500	500	41.1J	89.4J	8	18	10-110		30	M1					
Benzyl alcohol	ug/L	ND	200	200	155	171	78	85	19-101	10	30						
bis(2-Chloroethoxy)methane	ug/L	ND	100	100	70.0	70.3	70	70	22-110	0	30						
bis(2-Chloroethyl) ether	ug/L	ND	100	100	89.1	88.1	89	88	16-110	1	30						
bis(2-Chloroisopropyl) ether	ug/L	ND	100	100	107	109	107	109	14-110	3	30						
bis(2-Ethylhexyl)phthalate	ug/L	38.2	100	100	93.9	88.5	56	50	23-102	6	30						
Butylbenzylphthalate	ug/L	ND	100	100	93.2	89.6	93	90	25-110	4	30						
Chrysene	ug/L	ND	100	100	80.8	76.1	81	76	23-115	6	30						
Di-n-butylphthalate	ug/L	ND	100	100	106	98.9	106	99	26-110	7	30						
Di-n-octylphthalate	ug/L	ND	100	100	98.2	92.3	98	92	22-110	6	30						
Dibenz(a,h)anthracene	ug/L	ND	100	100	85.7	80.2	86	80	21-112	7	30						
Dibenzofuran	ug/L	ND	100	100	84.7	83.3	85	83	19-102	2	30						
Diethylphthalate	ug/L	ND	100	100	102	101	102	101	29-110	1	30						
Dimethylphthalate	ug/L	ND	100	100	95.0	94.4	95	94	27-110	1	30						
Fluoranthene	ug/L	ND	100	100	89.0	82.5	89	82	23-112	8	30						
Fluorene	ug/L	ND	100	100	86.7	85.2	87	85	22-104	2	30						
Hexachloro-1,3-butadiene	ug/L	ND	100	100	55.7	54.7	56	55	10-110	2	30						
Hexachlorobenzene	ug/L	ND	100	100	70.6	64.8	71	65	21-116	9	30						
Hexachlorocyclopentadiene	ug/L	ND	100	100	43.8	42.6	44	43	10-110	3	30						
Hexachloroethane	ug/L	ND	100	100	70.1	73.6	70	74	10-110	5	30						
Indeno(1,2,3-cd)pyrene	ug/L	ND	100	100	85.6	79.7	86	80	20-113	7	30						
Isophorone	ug/L	ND	100	100	70.6	73.9	71	74	50-150	5	30						
N-Nitroso-di-n-propylamine	ug/L	ND	100	100	95.9	102	96	102	21-105	6	30						
N-Nitrosodimethylamine	ug/L	ND	100	100	64.8	71.5	65	72	10-110	10	30						
N-Nitrosodiphenylamine	ug/L	ND	100	100	86.3	80.2	86	80	23-107	7	30						
Naphthalene	ug/L	ND	100	100	61.6	61.2	62	61	10-110	1	30						
Nitrobenzene	ug/L	ND	100	100	70.3	70.8	70	71	20-110	1	30						
Pentachlorophenol	ug/L	ND	200	200	168	169	84	84	10-118	0	30						

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1449640		1449641		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92247303004 Result	MS Spike Conc.	MSD Spike Conc.									
Phenanthrene	ug/L	ND	100	100	87.1	81.4	87	81	24-106	7	30		
Phenol	ug/L	ND	100	100	51.2	59.3	51	59	12-110	15	30		
Pyrene	ug/L	ND	100	100	72.2	69.3	72	69	24-114	4	30		
2,4,6-Tribromophenol (S)	%						81	74	27-110				
2-Fluorobiphenyl (S)	%						73	69	27-110				
2-Fluorophenol (S)	%						50	55	12-110				
Nitrobenzene-d5 (S)	%						65	63	21-110				
Phenol-d6 (S)	%						45	52	10-110				
Terphenyl-d14 (S)	%						66	63	31-107				

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QUALIFIERS

Project: Buzzard Point, Washington DC R1
Pace Project No.: 92247497

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Buzzard Point, Washington DC R1

Pace Project No.: 92247497

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92247497001	GTW-605-802-1-2	EPA 3510	OEXT/34762	EPA 8015 Modified	GCSV/21237
92247497002	GTW-605-802-2-2	EPA 3510	OEXT/34762	EPA 8015 Modified	GCSV/21237
92247497003	GTW-605-802-6-2	EPA 3510	OEXT/34762	EPA 8015 Modified	GCSV/21237
92247497001	GTW-605-802-1-2	EPA 5030/8015 Mod.	GCV/9322		
92247497002	GTW-605-802-2-2	EPA 5030/8015 Mod.	GCV/9322		
92247497001	GTW-605-802-1-2	EPA 3010	MPRP/18383	EPA 6010	ICP/16506
92247497002	GTW-605-802-2-2	EPA 3010	MPRP/18383	EPA 6010	ICP/16506
92247497003	GTW-605-802-6-2	EPA 3010	MPRP/18383	EPA 6010	ICP/16506
92247497001	GTW-605-802-1-2	EPA 7470	MERP/7785	EPA 7470	MERC/7469
92247497002	GTW-605-802-2-2	EPA 7470	MERP/7785	EPA 7470	MERC/7469
92247497003	GTW-605-802-6-2	EPA 7470	MERP/7785	EPA 7470	MERC/7469
92247497001	GTW-605-802-1-2	EPA 3510	OEXT/34764	EPA 8270	MSSV/10634
92247497002	GTW-605-802-2-2	EPA 3510	OEXT/34764	EPA 8270	MSSV/10634
92247497005	TRIP BLANK	EPA 8260	MSV/31503		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
 Document Number:
F-CHR-CS-003-rev.15

Document Revised: September 22, 2014
 Page 1 of 2
 Issuing Authority:
 Pace Huntersville Quality Office

Client Name: Haley 3 A/Drich

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble V Bubble Bags None Other _____

Thermometer Used: IR Gun T1401 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 3.4 °C
 Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No N/A

Optional
 Proj. Due Date:
 Proj. Name:

Date and Initials of person examining contents: AP 4-29-15

	Comments:
Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: _____	
All containers needing preservation have been checked. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

SCURF Review: AMB Date: 4-29-15
 SRF Review: SD Date: 043015

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92247497



