

**DANGER BAY LOG CAMP
SITE CHARACTERIZATION REPORT
ADEC Hazard ID# 3796**

Prepared for:



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ACRONYMS AND ABBREVIATIONS

| | |
|---------|---|
| AAC | Alaska Administrative Code |
| ADEC | Alaska Department of Environmental Conservation |
| AST | Aboveground Storage Tank |
| Afognak | Afognak Native Corporation |
| BTI | Ben A Thomas Inc. |
| bgs | Below Ground Surface |
| BTEX | Benzene, toluene, ethylbenzene, and total xylenes |
| COPC | Contaminants of Potential Concern |
| COC | Chain of Custody |
| DRO | Diesel Range Organics |
| GRO | Gasoline Range Organics |
| GPS | Global Positioning System |
| EDB | Ethylene Dibromide |
| MEE | Montauk Environmental Engineering |
| MTG | Migration to Groundwater |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PCB | Polychlorinated Biphenyls |
| PID | Photo-Ionization Detector |
| POL | Petroleum, Oil, and Lubricants |
| PPE | Personal Protective Equipment |
| ppm | Parts per Million |
| QA/QC | Quality Assurance/Quality Control |
| RCRA | Resource Conservation and Recovery |
| RRO | Residual Range Organics |
| TPEC | Travis/Peterson Environmental Consulting |
| VOC | Volatile Organic Compound |
| WRCC | Western Region Climate Center |

1.0 INTRODUCTION

Afognak Native Corporation (Afognak) contracted Travis Peterson Environmental Consulting (TPEC), a division of 3-Tier Alaska, to prepare this report to summarize activities performed at the Danger Bay Log Camp Site (hereafter, subject property). TPEC performed the activities discussed in this report between July 13th and 15th, 2021. The activities were in response to a June 19, 2020, Alaska Department of Environmental Conservation (ADEC) letter requesting Afognak characterize the extent of petroleum contamination at the subject property. TPEC developed a characterization work plan that the ADEC approved on February 1, 2021. The work plan objectives were to determine if past remediation efforts at outlier sites were remediated to completion and to determine if cleanup levels had been met at the bioremediation treatment cell. The work plan included screening, sampling, laboratory analysis, and reporting of petroleum-contaminated soils and water.

This report describes the actions taken to characterize soil and water at the subject property. Figure 1 in Appendix A shows the location of the project. Figure 2 in Appendix A shows the outlying sites and bioremediation cell.

TPEC developed this report to meet the requirements of 18 Alaska Administrative Code (AAC) 75.325. The report describes the methods and procedures through which action was taken under regulatory oversight to identify and characterize soil and water contaminant concentrations to numeric and practicable cleanup levels defined in 18 AAC 75.

2.0 OBJECTIVES

The objectives of this report are to present details on the following activities:

- A site description and background;
- Determination of the extent of previous remediation;
- Field screening and sampling actions;
- Collection of soil and water samples for laboratory analysis;
- Analysis and summary of investigation results;
- Field decontamination methods; and
- Conclusions and recommendations

The objective of the proposed work was to verify the extent of previous remediation activities and to identify the presence or absence of any residual contaminated soils through field screening and laboratory analysis. The extent and boundaries of the work were limited to the impacted areas (outlier sites) discussed in the *Draft 2003 Report of Limited Site Assessments Ben A. Thomas, Inc. Area of Operation* and soils contained within the bioremediation treatment cell discussed in the *2009 Cleanup Report, Former Ben A. Thomas Inc. Old Shop Building*.

TPEC personnel reviewed all available documents associated with the subject property. The exact location of many of the outlier sites mentioned in the *2003 Limited Site Assessment* and discussed in Section 3.0 were unknown. Given these circumstances, TPEC investigated the subject property using olfactory and visual clues to determine the presence or absence of contamination. When contamination was observed, TPEC personnel collected screening and laboratory samples to confirm contaminant concentrations. Additionally, TPEC personnel utilize local resources familiar with the site and history to ensure the proper locations were investigated. Global Positioning System (GPS) coordinates from each outlier site were recorded. No additional work or investigation of other areas of the property was proposed.

3.0 SITE DESCRIPTION AND BACKGROUND

3.1 Facility Description

The subject property is located along Kazakof Bay on Afognak Island north of Kodiak, Alaska (Figure 1, Appendix A). The property is situated in Section 33, Township 23 North, Range 20 West, Seward Meridian; 58.137342° North latitude and -152.550361° West longitude. Afognak owns the property.

The United States Army developed the property in the 1940s as a logging facility. During the period from 1986 through 2004, Ben A. Thomas, Inc. (BTI), a forestry resources company, used the site as a base and maintenance camp for logging operations conducted on other properties owned by Afognak. Maintenance and fueling stations that supported logging operations were common throughout the BTI area of operation and were responsible for numerous petroleum-oil-lubricant (POL) spills. The facility utilizes a single drinking water well located approximately 550 feet north of the New Shop Building (Figure 13, Appendix A).

3.2 2003 Limited Site Assessment

Afognak hired MEE to conduct a series of Limited Site Assessments to investigate the potential for POL contamination at multiple sites scattered about BTI's area of operation. On June 2-5, 2003, MEE advanced test holes at sites where stained soils had been previously observed. The approximate locations of these test holes are shown in Figure 2 (Appendix A). The sites scattered about BTI's area of operation were determined by the Limited Site Assessment to be contaminated by one or more measured Contaminants of Concern (COC) above applicable cleanup levels set by *18 AAC 75.341 Method 2, Table B1, Method Two – Soil Cleanup Levels, Migration to Groundwater*. Each site discussed in the Limited Site Assessment is discussed in detail below.

3.2.1 Sort Yard

The Sort Yard is comprised of several subsites. These subsites are addressed separately below and are shown in Figure 3 in Appendix A.

3.2.1.1 Sort Yard Circle

The Sort Yard Circle was an area located within the Sort Yard that borders Danger Bay's Lookout Cove. Heavy equipment is used extensively at the site to sort, select, and package logs for shipment. During the Limited Site Assessment, MEE dug six test holes. Test holes were advanced until refusal at depths ranging from three to six feet below ground surface (bgs). Laboratory samples were collected from each test hole and analyzed for Diesel Range Organics (DRO) and Residual Range Organics (RRO).

Measured concentrations of DRO and RRO at two test holes exceeded Migration to Groundwater (MTG) cleanup levels. Table 1 shows confirmation sample results for hydrocarbon ranges DRO and RRO. Samples above MTG cleanup level are in bold.

Table 1: DRO and RRO Results for Sort Yard Circle

| Sample ID | Location | Approx. Depth (feet) | DRO | RRO |
|-----------|----------|----------------------|---------------|---------------|
| | | | 230 mg/KG | 9,700 mg/Kg |
| 03BSA-01 | TH-1 | Surface | 15,100 | 63,800 |
| 03BSA-02 | TH-1 | 6 | 2,160 | 5,000 |
| 03BSA-03 | TH-2 | 4 | 244 | 493 |
| 03BSA-04 | TH-3 | 6 | 182 | 481 |
| 03BSA-05 | TH-4 | 4 | 101 | 255 |
| 03BSA-06 | TH-5 | 3 | 176 | 395 |
| 03BSA-07 | TH-6 | 3 | 150 | 358 |

3.2.1.2 Former AST (Sort Yard)

The former aboveground storage tank (AST) at the Sort Yard was located near the boat ramp that entered Outlook Cove. Five test holes were dug at the Former AST site. Test holes were advanced until refusal at depths ranging from three to seven feet bgs. Groundwater was observed at TH-11. Laboratory samples were collected from each test hole and analyzed for DRO and RRO. Additionally, two lab samples collected from two test holes (TH-8 & TH11) with the highest field screening measurements were also analyzed for Gasoline Range Organics (GRO) and benzene, toluene, ethylbenzene, and xylenes (BTEX). Laboratory samples were collected from each test hole at the refusal depth.

Measured concentrations of DRO, GRO, benzene, toluene, ethylbenzene, and xylenes at the site exceeded MTG cleanup levels. Table 2 shows confirmation sample results for hydrocarbon ranges DRO, RRO, and GRO, and BTEX analytes. Samples above MTG cleanup level are in bold.

Table 2: DRO, RRO, GRO, and BTEX Results for Former AST

| Sample ID | Location | Approx. Depth (feet) | DRO | RRO | GRO | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------|----------|----------------------|--------------|-------------|------------|--------------|-------------|--------------|-------------|
| | | | 230 mg/KG | 9,700 mg/Kg | 260 mg/Kg | 0.022 mg/Kg | 6.7 mg/Kg | 0.13 mg/Kg | 1.5 mg/Kg |
| 03BSA-08 | TH-7 | 4 | 806 | 985 | - | - | - | - | - |
| 03BSA-09 | TH-8 | 5 | 1,100 | 2,750 | 344 | 1.73 | 21.0 | 8.87 | 54.1 |
| 03BSA-10 | TH-9 | 6 | 73.7 | 92.2 | - | - | - | - | - |
| 03BSA-11 | TH-10 | 3 | 5.11 | ND | - | - | - | - | - |
| 03BSA-12 | TH-11 | 7 | 780 | 2,730 | 18.0 | 0.187 | 1.55 | 0.226 | 1.44 |

ND signifies the analyte was analyzed for but not detected

3.2.1.3 Sort Yard Saw Gas

This site was used to store gasoline for chain saws along with other portable equipment. Two test holes were advanced in areas where surface staining was present. Test holes were advanced until refusal at five feet below ground surface (bgs). Laboratory samples were collected and analyzed for DRO, RRO, GRO, and BTEX.

A measured concentration of DRO, benzene, ethylbenzene, and xylenes at the site exceeded MTG cleanup levels. Table 3 shows confirmation sample results for hydrocarbon ranges DRO, RRO and GRO, and BTEX analytes. Samples above MTG cleanup level are in bold.

Table 3: DRO, RRO, GRO, and BTEX Results for Sort Yard Saw Gas

| Sample ID | Location | Approx. Depth (feet) | DRO | RRO | GRO | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------|----------|----------------------|------------|-------------|-----------|---------------|-----------|--------------|-------------|
| | | | 230 mg/KG | 9,700 mg/Kg | 260 mg/Kg | 0.022 mg/Kg | 6.7 mg/Kg | 0.13 mg/Kg | 1.5 mg/Kg |
| 03BSA-13 | TH-12 | 3 | 34.9 | 100 | ND | ND | 0.0422 | ND | 0.0795 |
| 03BSA-14 | TH-13 | 5.5 | 883 | 2,430 | 27.8 | 0.0510 | 0.635 | 0.199 | 5.07 |

ND signifies the analyte was analyzed for but not detected

3.2.1.4 Sort Yard Scaler Shack

This site was used to store drums of hydraulic fluid and lubricants. Four test holes were advanced until refusal at one foot bgs. Laboratory samples were collected and analyzed for DRO and RRO.

A measured concentration of DRO at the site exceeded MTG cleanup levels. Table 4 shows confirmation sample results for hydrocarbon ranges DRO and RRO. Samples above MTG cleanup level are in bold.

Table 4: DRO and RRO Results for Sort Yard Scaler Shack

| Sample ID | Location | Approx. Depth (feet) | DRO | RRO |
|-----------|----------|----------------------|--------------|-------------|
| | | | 230 mg/KG | 9,700 mg/Kg |
| 03BSA-15 | TH-14 | 1 | 81.4 | 353 |
| 03BSA-16 | TH-15 | 1 | 183 | 1,090 |
| 03BSA-17 | TH-16 | 1 | 72.5 | 292 |
| 03BSA-18 | TH-17 | 1 | 1,480 | 2,080 |

3.2.1.5 Sort Yard Sump

This site was a lined settling pond located at the southern end of the Sort Yard at the lowest elevation. Two test holes were advanced within the flood zone until refusal at two and three and one-half feet bgs. Laboratory samples were collected and analyzed for DRO, RRO, GRO, and BTEX.

Measured concentrations of DRO at the site exceeded MTG cleanup levels. Table 5 shows confirmation sample results for hydrocarbon ranges DRO, RRO, and GRO, and BTEX analytes. Samples above MTG cleanup level are in bold.

Table 5: DRO, RRO, GRO, and BTEX Results for Sort Yard Sump

| Sample ID | Location | Approx. Depth (feet) | DRO | RRO | GRO | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------|----------|----------------------|------------|-------------|-----------|-------------|-----------|--------------|-----------|
| | | | 230 mg/KG | 9,700 mg/Kg | 260 mg/Kg | 0.022 mg/Kg | 6.7 mg/Kg | 0.13 mg/Kg | 1.5 mg/Kg |
| 03BSA-54 | TH-44 | 3.5 | 255 | 409 | ND | ND | 0.130 | ND | 0.0991 |
| 03BSA-55 | TH-45 | 2 | 313 | 511 | ND | ND | 0.0687 | ND | 0.0862 |

ND signifies the analyte was analyzed for but not detected

3.2.2 Equipment Repair Yard

This site was located on the northeast shoulder of the Sort Yard Access Road before the Sort Yard (Figure 3). The area was used for equipment repair and storage. Six test holes were advanced at locations where stained soils were observed. Test holes were advanced until refusal at depths ranging from one to two and one-half feet bgs. Groundwater was observed in TH-18 and TH-20. The groundwater observed in TH-20 had a strong POL odor and a noticeable sheen. Laboratory samples were collected and analyzed for DRO and RRO.

A measured concentration of DRO at the site exceeded MTG cleanup levels. Table 6 shows confirmation sample results for hydrocarbon ranges DRO and RRO. Samples above MTG cleanup level are in bold.

Table 6: DRO and RRO Results for Equipment Repair Yard

| Sample ID | Location | Approx. Depth (feet) | DRO | RRO |
|-----------|----------|----------------------|------------|-------------|
| | | | 230 mg/Kg | 9,700 mg/Kg |
| 03BSA-19 | TH-18 | 2.5 | 27.4 | 104 |
| 03BSA-20 | TH-19 | 1 | 141 | 279 |
| 03BSA-21 | TH-20 | 1 | 477 | 768 |
| 03BSA-22 | TH-21 | 1.5 | 17.0 | 71.9 |
| 03BSA-23 | TH-22 | 1 | 205 | 564 |
| 03BSA-24 | TH-23 | 2 | 10.3 | 35.7 |

3.2.3 Old Cobblestone Saw Gas

This site was the location of the former chainsaw fueling station. The fueling station was demolished in October 2001, immediately after the construction of the New Cobblestone Saw Gas site (see section 3.2.4). Four test holes were dug around the former location of the shed. Test holes were advanced until refusal at depths ranging between one and six feet bgs. A seep of mixed fuel and water was observed at TH-24. Laboratory samples were collected from each test hole and analyzed for DRO, RRO, GRO, and BTEX.

Measured concentrations of DRO, benzene, ethylbenzene, and xylenes at the site exceeded MTG cleanup levels. Table 7 shows confirmation sample results for hydrocarbon ranges DRO, RRO, and GRO, and BTEX analytes. Samples above MTG cleanup level are in bold.

Table 7: DRO, RRO, GRO, and BTEX Results for Old Cobblestone Saw Gas

| Sample ID | Location | Approx. Depth (feet) | DRO | RRO | GRO | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------|----------|----------------------|--------------|-------------|-----------|---------------|-----------|--------------|-------------|
| | | | 230 mg/KG | 9,700 mg/Kg | 260 mg/Kg | 0.022 mg/Kg | 6.7 mg/Kg | 0.13 mg/Kg | 1.5 mg/Kg |
| 03BSA-25 | TH-24 | 2 | 2,330 | 8,690 | 48.4 | 0.0597 | 0.530 | 1.10 | 14.7 |
| 03BSA-26 | TH-25 | 2 | 37.5 | 130 | 10.4 | 0.441 | 2.85 | 0.157 | 0.832 |
| 03BSA-27 | TH-25 | 6.5 | 21.3 | 88.2 | 2.16 | 0.0757 | 0.141 | 0.0280 | 0.303 |
| 03BSA-28 | TH-26 | 4 | 1,250 | 137 | 9.64 | 0.0353 | 0.254 | 0.0583 | 0.516 |
| 03BSA-29 | TH-27 | 4 | 1,090 | 4,270 | 61.3 | 0.647 | 6.41 | 0.165 | 14.7 |

3.2.4 New Cobblestone Saw Gas

This site was the chain saw fueling station constructed in October 2001 to replace the old Cobblestone Saw Gas (see section 3.2.3). The location of the chain saw fueling station was approximately 120-feet from the old fueling station. Test hole locations were chosen at random around the fueling shed. Four test holes were advanced until refusal at depths ranging between six and eight feet bgs. Laboratory samples were collected and analyzed for DRO, RRO, GRO, and BTEX.

A measured concentration of DRO at the site exceeded MTG cleanup levels. Table 8 shows confirmation sample results for hydrocarbon ranges DRO, RRO, and GRO, and BTEX analytes. Samples above MTG cleanup level are in bold.

Table 8: DRO, RRO, GRO, and BTEX Results for New Cobblestone Saw Gas

| Sample ID | Location | Approx. Depth (feet) | DRO | RRO | GRO | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------|----------|----------------------|------------|-------------|-----------|-------------|-----------|--------------|-----------|
| | | | 230 mg/KG | 9,700 mg/Kg | 260 mg/Kg | 0.022 mg/Kg | 6.7 mg/Kg | 0.13 mg/Kg | 1.5 mg/Kg |
| 03BSA-30 | TH-28 | 6 to 8 | 117 | 210 | ND | 0.0180 | 0.155 | 0.0306 | 0.274 |
| 03BSA-31 | TH-29 | 6 to 8 | 648 | 202 | ND | 0.0103 | 0.0785 | ND | 0.135 |
| 03BSA-32 | TH-30 | 6 to 8 | 102 | 223 | ND | ND | 0.0551 | ND | 0.0683 |
| 03BSA-33 | TH-31 | 6 to 8 | 196 | 1,070 | ND | ND | ND | ND | 0.237 |

ND signifies the analyte was analyzed for but not detected

3.2.5 6.5 Mile 1110 Road Saw Gas

This site was the former chain saw fueling station. Test hole locations were chosen at random. Three test holes were advanced until refusal at depths ranging from six inches to one foot. Groundwater with noticeable sheen and odor was observed in TH-33. Laboratory samples were collected and analyzed for DRO, RRO, GRO, and BTEX.

Measured concentrations of DRO, benzene, ethylbenzene, and xylenes at the site exceeded MTG cleanup levels. Table 9 shows confirmation sample results for hydrocarbon ranges DRO, RRO, and GRO, and BTEX analytes. Samples above MTG cleanup level are in bold.

Table 9: DRO, RRO, GRO, and BTEX Results for 6.5 Mile 1110 Road Saw Gas

| Sample ID | Location | Approx. Depth (feet) | DRO | RRO | GRO | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------|----------|----------------------|------------|-------------|-----------|--------------|-----------|--------------|-------------|
| | | | 230 mg/KG | 9,700 mg/Kg | 260 mg/Kg | 0.022 mg/Kg | 6.7 mg/Kg | 0.13 mg/Kg | 1.5 mg/Kg |
| 03BSA-34 | TH-32 | 0.5 to 1 | 7.98 | ND | ND | 0.0123 | 0.0679 | ND | 0.166 |
| 03BSA-35 | TH-33 | 0.5 to 1 | 986 | 3,950 | 31.7 | 0.325 | 3.28 | 0.372 | 8.64 |
| 03BSA-36 | TH-34 | 0.5 to 1 | 123 | 594 | 11.4 | 0.129 | 1.2 | 0.116 | 2.38 |

ND signifies the analyte was analyzed for but not detected

3.2.6 Crushed Drum and Diesel Stockpiles

This site had two uncovered co-joined stockpiles (crushed drum and diesel) that were formed during remedial efforts in 1997.

The crushed drum stockpile was approximately 30 cubic yards in volume. The stockpile was formed from the excavation of contaminated soil from the Crushed Drum Disposal area. Five field screening samples were collected. Analytical samples were collected from the three field screening samples points with the highest screening results. Samples were analyzed for DRO, RRO, GRO, and BTEX.

The Diesel Stockpile consisted of contaminated soil excavated from the Sort Yard AST. The volume of the stockpile was approximately 170 cubic yards. Seventeen field screening samples were collected. Analytical samples were collected from the five locations with the highest screening results. Samples were analyzed for DRO, RRO, GRO, BTEX, and PAH.

Measured concentrations of DRO at the site exceeded MTG cleanup levels. Table 10 shows confirmation sample results DRO, RRO, and GRO, and BTEX analytes. Samples above MTG cleanup level are in bold.

Table 10: DRO, RRO, GRO, and BTEX Results for Crushed Drum and Diesel Stockpiles

| Sample ID | Location | DRO | RRO | GRO | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------|--------------|--------------|-------------|-----------|-------------|-----------|--------------|-----------|
| | | 230 mg/Kg | 9,700 mg/Kg | 260 mg/Kg | 0.022 mg/Kg | 6.7 mg/Kg | 0.13 mg/Kg | 1.5 mg/Kg |
| 03BSA-37 | Crushed Drum | 252 | 119 | ND | 0.0105 | 0.0932 | ND | 0.104 |
| 03BSA-38 | Crushed Drum | 137 | 499 | ND | ND | 0.0290 | ND | ND |
| 03BSA-39 | Crushed Drum | 260 | 594 | ND | ND | 0.0635 | ND | 0.110 |
| 03BSA-40 | Diesel | 183 | 148 | ND | ND | 0.0345 | ND | 0.0442 |
| 03BSA-41 | Diesel | 549 | 2,100 | ND | 0.0119 | 0.0595 | ND | 0.0574 |
| 03BSA-42 | Diesel | 2,040 | 4,460 | ND | 0.0210 | 0.178 | 0.0260 | 0.194 |
| 03BSA-43 | Diesel | 623 | 2,510 | ND | 0.0109 | 0.0657 | ND | 0.109 |
| 03BSA-44 | Diesel | 388 | 1,240 | ND | 0.0101 | 0.0463 | ND | ND |

ND signifies the analyte was analyzed for but not detected

All PAH analytes except for phenanthrene (0.0192 mg/Kg) in sample 03BSA-44 were non-detected.

3.2.7 6.5 Mile Rock Pit Debris Area

This site was the former rock pit used as a disposal area for miscellaneous refuse. Three test holes were advanced to refusal at depths ranging from one and one-half to two feet bgs. Groundwater was detected at refusal depths. Laboratory samples were collected and analyzed for DRO and RRO.

Measured concentrations of DRO at the site exceeded MTG cleanup levels. Table 11 shows confirmation sample results DRO and RRO. Samples above MTG cleanup level are in bold.

Table 11: DRO and RRO Results for 6.5 Mile Rock Pit Debris Area

| Sample ID | Location | Approx. Depth (feet) | DRO | RRO |
|-----------|----------|----------------------|--------------|-------------|
| | | | 230 mg/Kg | 9,700 mg/Kg |
| 03BSA-45 | TH-35 | 1 to 1.5 | 4,730 | 7,830 |
| 03BSA-46 | TH-36 | 1 to 1.5 | 119 | 420 |
| 03BSA-47 | TH-37 | 1 to 1.5 | 398 | 1,060 |

3.2.8 6.0 Mile 1100 Road Saw Gas

This site was a former chain saw fueling station. Test hole locations were chosen at random. Two test holes were advanced until refusal at depths ranging from six to eight feet bgs. Laboratory samples were collected and analyzed for DRO, RRO, GRO, and BTEX. Target analytes were not detected in any of the samples collected for laboratory analysis.

3.2.9 Crushed Drum Disposal Area

This site is located southwest of the landfill and is the location of the 1997 Remedial Action which resulted in the removal of approximately two dozen crushed drums and 30 cubic yards of contaminated soil (see section 3.2.6). The resulting excavation was lined and filled with water. Four test holes were advanced

around the perimeter of the former excavation area until refusal at depths ranging from one and one-half feet to six feet bgs. Laboratory samples were collected and analyzed for DRO, RRO, GRO, and BTEX.

A measured concentration of DRO at the site exceeded MTG cleanup levels. Table 12 shows confirmation sample results DRO, RRO, and GRO, and BTEX analytes. Samples above MTG cleanup level are in bold.

Table 12: DRO, RRO, GRO, and BTEX Results for Crushed Drum Disposal Area

| Sample ID | Location | Approx. Depth (feet) | DRO | RRO | GRO | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------|----------|----------------------|------------|-------------|-----------|-------------|-----------|--------------|-----------|
| | | | 230 mg/KG | 9,700 mg/Kg | 260 mg/Kg | 0.022 mg/Kg | 6.7 mg/Kg | 0.13 mg/Kg | 1.5 mg/Kg |
| 03BSA-50 | TH-40 | 1.5 to 6 | 6.63 | ND | ND | ND | 0.0311 | ND | ND |
| 03BSA-51 | TH-41 | 1.5 to 6 | 279 | ND | ND | ND | ND | ND | 0.0918 |
| 03BSA-52 | TH-42 | 1.5 to 6 | 19.2 | 76.5 | ND | ND | ND | ND | ND |
| 03BSA-53 | TH-43 | 1.5 to 6 | 21.4 | 78.2 | ND | ND | ND | ND | ND |

ND signifies the analyte was analyzed for but not detected

3.2.10 Petticoat Saw Gas

This site is located on 1100 Road and was the site of a former chain saw fueling area. Three test holes were advanced randomly around the location of the former fueling shed. Test holes were advanced until refusal at depths ranging from one and one-half to seven feet bgs. Laboratory samples were collected and analyzed for DRO, RRO, GRO, and BTEX. A measured concentration of benzene at the site exceeded MTG cleanup levels. Table 13 shows confirmation sample results DRO, RRO, and GRO, and BTEX analytes. Samples above MTG cleanup level are in bold.

Table 13: DRO, RRO, GRO, and BTEX Results for Petticoat Saw Gas

| Sample ID | Location | Approx. Depth (feet) | DRO | RRO | GRO | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------|----------|----------------------|-----------|-------------|-----------|--------------|-----------|--------------|-----------|
| | | | 230 mg/KG | 9,700 mg/Kg | 260 mg/Kg | 0.022 mg/Kg | 6.7 mg/Kg | 0.13 mg/Kg | 1.5 mg/Kg |
| 03BSA-56 | TH-46 | 1.5 to 7 | 53.4 | 200 | ND | ND | ND | ND | ND |
| 03BSA-57 | TH-47 | 1.5 to 7 | 223 | 818 | 7.95 | 0.309 | 1.75 | 0.127 | 0.831 |
| 03BSA-58 | TH-48 | 1.5 to 7 | 19.2 | 91.2 | ND | ND | ND | ND | ND |

ND signifies the analyte was analyzed for but not detected

3.2.11 1.0 Mile 1100 Road Saw Gas

This site is located on 1100 Road and was the site of a former chain saw fueling area. Three test holes were advanced randomly around the location of the former fueling shed. Test holes were advanced until refusal at depths ranging from one and one-half to six feet bgs. Laboratory samples were collected and analyzed for DRO, RRO, GRO, and BTEX.

Measured concentrations of benzene, ethylbenzene, and xylenes at the site exceeded MTG cleanup levels. Table 14 shows confirmation sample results DRO, RRO, and GRO, and BTEX analytes. Samples above MTG cleanup level are in bold.

Table 14: DRO, RRO, GRO, and BTEX Results for 1.0 Mile 1100 Road Saw Gas

| Sample ID | Location | Approx. Depth (feet) | DRO | RRO | GRO | Benzene | Toluene | Ethylbenzene | Xylenes |
|-----------|----------|----------------------|-----------|-------------|-----------|---------------|-----------|--------------|-------------|
| | | | 230 mg/KG | 9,700 mg/Kg | 260 mg/Kg | 0.022 mg/Kg | 6.7 mg/Kg | 0.13 mg/Kg | 1.5 mg/Kg |
| 03BSA-59 | TH-49 | 1.5 to 6 | 115 | 210 | 3.27 | 0.0313 | 0.128 | ND | 0.219 |
| 03BSA-60 | TH-50 | 1.5 to 6 | 110 | 438 | 76.2 | 0.143 | 2.41 | 1.43 | 13.0 |
| 03BSA-61 | TH-51 | 1.5 to 6 | 26.4 | 140 | 3.04 | 0.0309 | 0.249 | 0.0653 | 0.0653 |

ND signifies the analyte was analyzed for but not detected

3.3 2009 Cleanup Report

In June 2009, Afognak hired MEE to excavate, transport, and treat POL spills in the vicinity of the Old Shop Building (OSB) near the BTI logging camp. The cleanup included the excavation of four discrete areas (A, B, C, and D) (Figure 12, Appendix A). Area A consisted of contaminated soil, identified by CH₂M HILL during the 2001 cleanup, under the OSB that could not be removed during 2001 without causing damage to the structure. Area B, identified by CH₂M HILL, was in an area with underground water and sewer lines. Areas C and D were locations where surface staining had been observed. Approximately 1,730 cubic yards of POL contaminated soil were excavated from the four areas. Contaminated soils were transported north of the Sort Yard to a newly constructed bioremediation cell (Figure 3, Appendix A). The treatment cell was in the same location as the previous treatment cells used to store contaminated soil from the 2001 Old Shop Building Cleanup.

MEE collected thirteen soil laboratory samples from the bioremediation cell. Twelve of the thirteen samples collected for laboratory analysis were collected from soils generated from Area A. These laboratory samples were analyzed for DRO, RRO, GRO, BTEX, Metals, PAH, and tetrachloroethene. The remaining laboratory sample was collected from soil generated from Area B. This sample was analyzed for DRO, RRO, GRO, BTEX, and PAH.

In laboratory analysis, DRO concentrations ranged from 28.2 mg/Kg to 5,640 mg/Kg. Twelve of the thirteen samples were found to have DRO concentration above the applicable cleanup level of 230 mg/Kg.

The BTEX analytes toluene, ethylbenzene, and xylenes were all below the MTG cleanup level. Only the BTEX analyte benzene was above the applicable cleanup level. Eight out of the thirteen laboratory samples exceeded the MTG cleanup levels for benzene.

All laboratory samples collected from soils generated from Area A were analyzed for the following metals: arsenic, chromium, and mercury. All twelve samples exceeded MTG cleanup levels for arsenic and chromium. All twelve samples detected mercury below applicable cleanup levels.

4.0 CONTAMINANTS OF POTENTIAL CONCERN

As outlined in the Work Plan, the contaminants of potential concern (COPC) were diesel fuel, unleaded gasoline, and waste/used oil. During the site characterization, TPEC collected soil samples for the following analysis: DRO, GRO, RRO, PAH, and Volatile Organic Compounds (VOCs) including BTEX. At sites where the COPC was waste oil or was unknown, such as the Bioremediation Treatment Cell, TPEC tested for Resource Conservation and Recovery Act (RCRA) Metals, Ethylene Dibromide (EDB), and Polychlorinated Biphenyls (PCBs) in addition to the previously mentioned COPC. TPEC also collected groundwater samples for the following analysis: DRO, GRO, RRO, PAH, VOC, RCRA metals, EDB, and PCBs.

Soil and water samples were submitted to SGS Environmental Laboratories, Inc. (SGS) in Anchorage, Alaska for laboratory analysis. SGS is an ADEC CS-LAP approved laboratory. The qualified sampler also performed field screening using a photo-ionization detector (PID) to screen soils for VOCs.

4.1 Soil Cleanup Levels

According to the Western Region Climate Center (WRCC), nearby Kitoi Bay averages 63.81 inches of precipitation per year. The project target soil cleanup levels shown in Table 15 below were established from ADEC, 18 AAC, Section 75.341, *Table B1 - Method Two – Soil Cleanup Levels, Migration to Groundwater*. All VOC project cleanup levels aside from the BTEX constituents listed below are listed in ADEC, 18 AAC, Section 75.341, *Table B1 - Method Two*.

Table 15: Project Soil Cleanup Levels

| Analyte | Units | Cleanup Level |
|-------------------------|-------|---------------|
| DRO | mg/Kg | 230 |
| RRO | mg/Kg | 9,700 |
| GRO | mg/Kg | 260 |
| Benzene | mg/Kg | 0.022 |
| Ethylbenzene | mg/Kg | 0.13 |
| Total Xylenes | mg/Kg | 1.5 |
| Toluene | mg/Kg | 6.7 |
| 1-Methylnaphthalene | mg/Kg | 0.41 |
| 2-Methylnaphthalene | mg/Kg | 1.3 |
| Acenaphthene | mg/Kg | 37 |
| Acenaphthylene | mg/Kg | 18 |
| Anthracene | mg/Kg | 390 |
| Benzo(a)anthracene | mg/Kg | 0.70 |
| Benzo[a]pyrene | mg/Kg | 1.2 |
| Benzo[b]fluoranthene | mg/Kg | 12 |
| Benzo[g,h,i]perylene | mg/Kg | 1,900 |
| Benzo[k]fluoranthene | mg/Kg | 120 |
| Chrysene | mg/Kg | 600 |
| Dibenz[a,h]anthracene | mg/Kg | 1.2 |
| Fluoranthene | mg/Kg | 590 |
| Fluorene | mg/Kg | 36 |
| Indeno[1,2,3-c,d]pyrene | mg/Kg | 12 |
| Naphthalene | mg/Kg | 0.038 |
| Phenanthrene | mg/Kg | 39 |
| Pyrene | mg/Kg | 87 |
| Arsenic | mg/Kg | 0.2 |
| Barium | mg/Kg | 2,100 |
| Cadmium | mg/Kg | 9.1 |
| Chromium | mg/Kg | 0.089 |
| Lead | mg/Kg | 800 |
| Mercury | mg/Kg | 0.36 |
| Selenium | mg/Kg | 6.9 |
| Silver | mg/Kg | 11 |
| EDB | mg/Kg | 0.00024 |
| PCB (total) | mg/Kg | 1.0 |

4.2 Groundwater Cleanup Levels

The project target water cleanup levels shown in Table 16 were established from ADEC Title 18, AAC, Section 75.345, *Table C, Groundwater Cleanup Levels*. All non-BTEX VOC project cleanup levels are listed in *Table C, Groundwater Cleanup Levels*.

Table 16: Project Groundwater Cleanup Levels

| Analyte | Units | Cleanup Level |
|-------------------------|-------|---------------|
| DRO | µg/L | 1,500 |
| RRO | µg/L | 1,100 |
| GRO | µg/L | 2,200 |
| Benzene | µg/L | 4.6 |
| Ethylbenzene | µg/L | 15 |
| Total Xylenes | µg/L | 190 |
| Toluene | µg/L | 1,100 |
| 1-Methylnaphthalene | µg/L | 11 |
| 2-Methylnaphthalene | µg/L | 36 |
| Acenaphthene | µg/L | 530 |
| Acenaphthylene | µg/L | 260 |
| Anthracene | µg/L | 43 |
| Benzo(a)anthracene | µg/L | 0.30 |
| Benzo[a]pyrene | µg/L | 0.25 |
| Benzo[b]fluoranthene | µg/L | 2.5 |
| Benzo[g,h,i]perylene | µg/L | 0.26 |
| Benzo[k]fluoranthene | µg/L | 0.80 |
| Chrysene | µg/L | 2.0 |
| Dibenz[a,h]anthracene | µg/L | 0.25 |
| Fluoranthene | µg/L | 260 |
| Fluorene | µg/L | 290 |
| Indeno[1,2,3-c,d]pyrene | µg/L | 0.19 |
| Naphthalene | µg/L | 1.7 |
| Phenanthrene | µg/L | 170 |
| Pyrene | µg/L | 120 |
| Arsenic | µg/L | 0.52 |
| Barium | µg/L | 3,800 |
| Cadmium | µg/L | 9.2 |
| Chromium | µg/L | 0.35 |
| Lead | µg/L | 15 |
| Mercury | µg/L | 0.52 |
| Selenium | µg/L | 100 |
| Silver | µg/L | 94 |
| EDB | µg/L | 0.00024 |
| PCB (total) | µg/L | 0.44 |

5.0 CHARACTERIZATION AND SAMPLING

This work was conducted in accordance with the ADEC *18 AAC 75 Oil and Other Hazardous Substances Pollution Control (revised November 2020)*. Where applicable, the site characterization and analysis were modeled after procedures described in the *ADEC Site Characterization Work Plan and Reporting Guidance for Investigation of Contaminated Sites (March 2017)*. Sampling efforts were conducted in accordance with the *ADEC Field Sampling Guidance (October 2019)* unless otherwise specified within this document.

Mr. Casey Volk and Mr. Nathan Kaaihue with TPEC, conducted the field work described within this report. TPEC personnel meet the ADEC definition of “Qualified Environmental Professional” in accordance with 18 AAC 75.333. Qualifications and resumes for all TPEC personnel are available in Appendix G. While on site, TPEC personnel were aided by Mr. Robert Graff, Camp Manager, with Afognak. All sample collection and site work were conducted by TPEC personnel. A photographic log documenting all site work is available in Appendix D. The complete TPEC field notes are available in Appendix E.

5.1 Soil Characterization

TPEC personnel advanced 31 test holes at outlier sites using an excavator at locations of suspected or likely contamination. The location of outlier test holes is shown in Figures 4-10 in Appendix A. Upon advancement, GPS coordinates of each soil test hole were recorded in TPEC personnel field notes.

Soil samples were collected for field screening at two-foot intervals within each soil test hole (i.e., 0-2’, 2-4’, etc.). A stainless-steel trowel was used to collect soils at specified depths from test hole sidewalls. Care was taken to minimize the exposure or agitation of soils prior to sample collection. Each soil sample was comprised of only freshly exposed soils. Test holes were advanced until field screening results fell below the threshold of 10 parts per million (ppm) on the PID or until encountering groundwater or refusal.

TPEC personnel monitored the digging of test holes using a PID. Since the COPC was weathered petroleum, TPEC used a PID screening threshold of 10ppm. TPEC also used an analytical sampling kit (laboratory-supplied sampling jars, preservatives, labels, and COC necessary for the collection and laboratory analysis of soil samples) on site in addition to olfactory and visual clues to determine the presence or absence of contamination. Test holes that contained a PID field screening higher than 10ppm were selected for laboratory analysis. Test holes that contained olfactory or visual indicators of contamination were also selected for laboratory analysis.

In addition to outlier sites, TPEC personnel investigated the Bioremediation Treatment Cell discussed in the 2009 Cleanup Report generated by MEE. TPEC advanced 25 test holes at each half of the bioremediation treatment cell (50 total). Using a PID, TPEC collected one heated headspace field screening sample along the base of each test hole. Each test hole was dug approximately 18-inches bgs. The location of each test hole can be seen in Figure 11 in Appendix A. TPEC collected analytical samples from test holes that contained the highest PID field screenings.

5.1.1 Field Screening

The following describes the sampling protocols that TPEC field personnel followed to screen and collect soil samples within soil test holes. Field screening occurred first to characterize the presence (if any) of hydrocarbon contamination within each soil test hole. A MiniRAE™ Systems 3000 PID was the primary equipment utilized for field screening.

TPEC personnel field screened soils for hydrocarbons with a PID in accordance with the ADEC *October 2019 Field Sampling Guidance, Section 5.0 Soil Sampling*. TPEC personnel documented the depth of each screening sample collected within each test hole in the field notes.

5.1.1.1 PID Calibration and Use

The PID was calibrated according to the manufacturer's specifications in the field using a fresh-air charcoal blank and 100-ppm isobutylene calibration span gas. A re-sealable polyethylene bag with a total capacity not less than eight ounces (approximately 250mL) was filled one-third to one-half full of soil from the screening sample. The soil, sealed in the bag, was allowed to warm up to 40 degrees Fahrenheit where it was held for at least 10 minutes, but no longer than 60 minutes. The soil sample was agitated for approximately 15 seconds at the beginning and end of the headspace development period to assist in volatilization. The tip of the calibrated PID was then placed inside the bag for thirty seconds or until the reading stabilized.

5.1.2 Collection of Samples for Laboratory Analysis

TPEC personnel collected two characterization samples for laboratory analysis from outlier sites with test holes that had a PID field screening higher than 10ppm. TPEC collected a single sample at locations where surface staining was observed but whose PID field screening results were below 10ppm. This was a deviation from the approved Work Plan and is discussed in Section 10.0. Once the excavation of the test hole was complete, TPEC reviewed the screening sample results and identified the two highest PID locations. The field screening samples within each test hole which exhibited the highest headspace PID screening results were chosen for laboratory analysis. Prior to collecting laboratory samples, TPEC personnel removed 6 inches of soil at the location of the sample. Laboratory samples were collected using clean hand towels and latex gloves. TPEC personnel took time to remove any observed organic material (i.e., roots) from each sample. TPEC documented the depth and location of each characterization sample.

TPEC personnel also collected characterization samples for laboratory analysis from the bioremediation treatment cell. TPEC advanced test holes (6 to 12 inches) and collected field screening samples. TPEC reviewed the screening sample results and identified the highest PID locations within each half of the treatment cell. The test holes which exhibited the highest headspace PID screening results were chosen for laboratory analysis. Laboratory samples were collected using clean hand towels and latex gloves. TPEC personnel took time to remove any observed organic material (i.e., roots) from each sample. TPEC documented the location of each characterization sample.

Duplicate samples were collected in accordance with Section 7.3 of the approved Work Plan of the approved Work Plan. Samples collected for laboratory analysis were analyzed in accordance with Section 5.1.4.

5.1.3 Excavated/Stockpiled Soil

Excavated contaminated soils were temporarily stockpiled adjacent to test holes. Test holes were backfilled using stockpiled soils immediately upon completion of sample collection. Efforts were made to return soils to the excavation matching soil strata.

No stockpiling, transport, or disposal of contaminated soils were involved as part of this investigation.

5.1.4 Soil Laboratory Methods

All laboratory soil samples were analyzed for GRO compounds by Method AK101, VOCs by EPA Method 8260C, DRO by Method AK102, and RRO by Method AK103. Laboratory samples collected at unknown sites or where suspected waste oil was a COPC were also analyzed for RCRA Metals by Method 6020B, EDB by Method 8260 SIM, and PCBs by Method SW 8020A. Additionally, TPEC collected a minimum of one PAH sample at each individual area of concern at the area most likely contaminated. Each PAH sample was analyzed for PAH by EPA Method 8270D-SIM to comply with the ADEC requirement for PAH sampling for diesel contamination (ADEC *Field Sampling Guidance (October 2019) Appendix F, Note 5*). Table 17 below shows the analytical methods and sample requirements.

Table 17: Analytical Methods and Sample Requirements

| Method | Matrix | Container (jars) | Preservative | Hold time |
|------------------------|--------|------------------------|---------------------|-----------|
| 8260C (VOCs) | Soil | 1, 4-oz prew't'd amber | MeOH and 0-6° C | 14 days |
| AK101 (GRO) | Soil | 1, 4-oz prew't'd amber | MeOH and 0-6° C | 14 days |
| AK102 (DRO) | Soil | 1, 4oz amber glass | 0-6° C | 14 days |
| AK103 (RRO) | Soil | 1, 4oz amber glass | 0-6° C | 14 days |
| SW6020 B (RCRA Metals) | Soil | 1, 4oz amber glass | 0-6° C | 14 days |
| 8270D-SIM (PAH) | Soil | 1, 4oz amber glass | 0-6° C | 14 days |
| SW 8260 SIM (EDB) | Soil | 1, 4-oz prew't'd amber | MeOH+BFB and 0-6° C | 14 days |
| SW 8020A (PCBs) | Soil | 1, 4oz amber glass | 0-6° C | 180 days |

Soil samples destined for volatile analysis were collected first, followed by samples collected for non-volatile analysis. Pre-weighed and pre-labeled soil sample containers were filled to a volume (mass) ranging from 25 to 50 grams of soil (approximately 1/3rd container volume) and were immediately preserved by pouring methanol over the soil and promptly securing the Teflon-lined container lid. Care was taken to ensure soils were completely covered with preservative provided by the analytical laboratory in pre-measured 25mL portions. If more than 25mL of preservative was required for a given sample, documentation of total preservative volume was recorded in the field notes and on the laboratory COC.

Sample Field Preparation

Sampling was performed in accordance with the applicable regulations:

- All samples were collected using disposable or cleaned and decontaminated sampling equipment;
- Field personnel wore disposable gloves, steel toed boots, reflective vest, and other appropriate Class D personal protective equipment. Gloves and sampling devices were changed between samples;
- Samples were collected as quickly as possible and placed in laboratory supplied containers;
- Soil for analytical sample testing were not obtained from field screening sample material;
- All samples were labeled; and
- All samples were preserved in accordance with laboratory specifications and cooled to a temperature of 0 to 6 degrees Celsius.

5.2 Groundwater Characterization

Prior to the site characterization, the extent of potential hydrocarbon contaminated groundwater at the subject property was unknown. Mile 6.5 Rock Debris Area was the only site where TPEC observed a hydrocarbon sheen within the groundwater. Photographs, GPS coordinates, and a description of the sheen were recorded in the field notes. TPEC personnel installed a temporary drive point monitoring well at the site. The installed well had a stainless-steel casing, ¾-inch in diameter, and was attached to a 10-inch, 50-mesh cylindrical filter-screen.

TPEC oversaw the installation of the temporary groundwater monitoring well. Using a tracked excavator, the temporary monitoring well was installed below groundwater depth. Once the excavation reached refusal, 30-inches bgs, TPEC personnel placed the well casing into the open excavation holding it in a vertical position. The excavation was then backfilled with native soils surrounding the well casing. Approximately 20-inches of native soils were above the screened intervals. No additional well packing was utilized. Before collecting a sample, TPEC waited 24 hours to allow the groundwater to recharge to provide a representative sample of groundwater.

TPEC personnel measured the depth-to-groundwater surface to the top of the well casing using a WLM Series Water Level Meter. The WLM Series meets US GGG-T-106E standards for accuracy. The water level meter was used to determine the depth of groundwater in the well-point casing. TPEC personnel calculated the total volume of water in the well casing and converted that amount to gallons. TPEC determined that the volume of water inside the well casing was approximately 0.062 gallons

TPEC personnel collected groundwater samples using collection methods outlined in the ADEC *Field Sampling Guidance* (October 2019). A peristaltic pump was used to develop the well by purging at least three times the calculated well volume (0.185 gallon). Pumping flow rates were controlled so that the well drawdown did not result in purging the well dry.

After purging the well, TPEC attempted to collect groundwater samples with a bladder pump outfitted with a new polyethylene tube. However, due to time constraints, TPEC was unable to use the bladder pump and instead used the peristaltic pump to collect groundwater samples. The use of the peristaltic pump may result in the loss of volatiles from the creation of a vacuum in the intake line that draws the sample to the surface. Any volatile organic groundwater data collected using a peristaltic pump is considered biased low. This is a deviation from the approved Work Plan and is discussed in more detail in Section 10.0.

Groundwater sampling was completed using a peristaltic pump. Groundwater drawn to the surface was discharged directly into the proper sampling container that was held by TPEC personnel. Samples were collected as close to the surface of groundwater as possible, within the top foot of the water column. A duplicate sample (TH27W2) was collected in accordance with Section 7.3 of the approved Work Plan.

5.2.1 Groundwater Laboratory Methods

All laboratory groundwater samples were analyzed for DRO, RRO, GRO, VOC, PAH, RCRA Metals, EDB, and PCBs. Table 18 below shows the analytical methods and sample requirements.

Table 18: Laboratory Analytical Methods for Groundwater

| Method | Matrix | Container (jars) | Preservative | Hold time |
|-------------------|--------|-------------------------------|-----------------|------------|
| 8260C (VOC) | Water | 3, 40 mL amber glass VOA vial | HCL and 0-6° C. | 14 days |
| AK101 (GRO) | Water | 3, 40 mL amber glass VOA vial | HCL and 0-6° C. | 14 days |
| AK103 (RRO) | Water | 1, 1 L amber glass | HCL and 0-6° C. | 14-40 days |
| AK102 (DRO) | Water | 1, 1 L amber glass | HCL and 0-6° C. | 14-40 days |
| 8270D SIM (PAH) | Water | 2, 1 L amber glass | 0-6° C. | 7 days |
| SW 8260 SIM (EDB) | Water | 3, 40 mL amber glass VOA vial | HCL and 0-6° C. | 14 days |
| SW 8020A (PCBs) | Water | 1, 4oz amber glass | 0-6° C | 180 days |

Water samples destined for volatile analysis was collected first, followed by samples collected for semi-volatile analysis. Water samples were collected within the top foot of the water column.

Sample Field Preparation

Sampling was performed in accordance with the applicable regulations:

- All samples were collected using disposable or cleaned and decontaminated sampling equipment;
- Field personnel wore disposable gloves, steel-toed boots, hard hat, reflective vest, and other appropriate Class D PPE. Gloves and sampling devices were changed between samples;
- Samples were collected as quickly as possible and placed in laboratory supplied containers;
- All samples were be labeled; and
- All samples were preserved in accordance with laboratory specifications and cooled to a temperature of 0° to 6° Celsius.

6.0 RESULTS AND SITE SPECIFIC DISCUSSION

The complete analytical results are in the SGS Laboratory Report 1214357 attached in Appendix C. The ADEC Data Review Checklist has also been completed for this report and is enclosed in Appendix C. The following sections show the analytical results from each outlier site and the bioremediation treatment cell.

6.1 Soil

6.1.1 Outlier Sites

TPEC collected 82 heated headspace field screening samples from 31 test holes advanced at outlier sites within the subject property. Of those samples, 21 were selected for laboratory analysis. Three field duplicate samples were collected for laboratory analysis. Sample TH15-96 is a field duplicate of sample TH15-72. TH24-24 is a field duplicate of sample TH24-0. Sample TH25-96 is a field duplicate of sample TH25-36.

6.1.1.1 Sort Yard

The Sort Yard is comprised of several subsites. These subsites are addressed separately below and are shown in Figure 3 in Appendix A.

6.1.1.1.1 Sort Yard Circle

The Sort Yard Circle was an area located within the Sort Yard that borders Danger Bay’s Lookout Cove. Heavy equipment is used extensively at the site to sort, select, and package logs for shipment. During the site characterization, TPEC dug two test holes (TH21 and TH22) (Figure 4, Appendix A). Test holes were advanced until refusal at depths ranging from 16 to 48-inches bgs. TPEC collected heated headspace

screening samples from each test hole. PID results ranged from 7.1ppm to 45.2ppm. TPEC collected four analytical samples from the Sort Yard Circle. Tables 18-21 show the analytical results.

Table 19 below shows the sample results for DRO, RRO, and GRO analysis. Samples above the MTG cleanup level are in **bold**.

Table 19: DRO, RRO, & GRO Results for Sort Yard Circle

| Sample ID | Approximate Depth (in) | DRO | RRO | GRO |
|-----------|------------------------|--------------|-------------|-----------|
| | | 230 mg/KG | 9,700 mg/Kg | 260 mg/Kg |
| TH21-0 | Surface | 85.7 | 343 | 2.24 U |
| TH21-16 | 16 | 71.4 | 317 | 2.55 U |
| TH22-24 | 24 | 2,420 | 4210 | 4.47 U |
| TH22-48 | 48 | 78.5 | 273 | 2.36 U |

U indicates the analyte was analyzed for but not detected.

In laboratory analysis, only DRO had a detected concentration above MTG cleanup levels. DRO concentrations ranged from 71.4mg/Kg in sample TH21-16 to 2,420mg/Kg in sample TH22-24. Samples also had detected concentrations for RRO, but concentrations were below MTG cleanup levels. Laboratory analysis did not detect concentrations of GRO.

Table 20 below shows the analytical results for VOC analysis. Samples above the MTG cleanup level are in **bold** and samples with analysis limit of quantitation (LOQ) above the MTG cleanup level are *italicized*.

Table 20: VOC Results for Sort Yard

| Analyte | Cleanup Level mg/Kg | Sample ID | | | |
|-----------------------------|------------------------|------------------|-----------------|-----------------|-----------------|
| | | TH21-0 | TH21-16 | TH22-24 | TH22-48 |
| 1,1,1,2-Tetrachloroethane | 0.022 | 0.0179U | 0.0204U | <i>0.0471U</i> | <i>0.0898U</i> |
| 1,1,1-Trichloroethane | 32 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| 1,1,2,2-Tetrachloroethane | 0.003 | 0.00179U | 0.00204U | <i>0.00471U</i> | <i>0.00898U</i> |
| 1,1,2-Trichloroethane | 0.0014 | 0.000716U | 0.000816U | <i>0.00188U</i> | <i>0.00359U</i> |
| 1,1-Dichloroethane | 0.092 | 0.0224U | 0.0255U | 0.0588U | <i>0.112U</i> |
| 1,1-Dichloroethene | 1.2 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| 1,1-Dichloropropene | N/A | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| 1,2,3-Trichlorobenzene | 0.15 | 0.0448U | 0.051U | 0.118U | <i>0.224U</i> |
| 1,2,3-Trichloropropane | 0.000031 | <i>0.00179U</i> | <i>0.00204U</i> | <i>0.00471U</i> | <i>0.00898U</i> |
| 1,2,4-Trichlorobenzene | 0.082 | 0.0224U | 0.0255U | 0.0588U | <i>0.112U</i> |
| 1,2,4-Trimethylbenzene | 0.61 | 0.0448U | 0.051U | 0.118U | 0.224U |
| 1,2-Dibromo-3-chloropropane | N/A | 0.0895U | 0.102U | 0.235U | 0.449U |
| 1,2-Dibromoethane | 0.00024 | <i>0.000895U</i> | <i>0.00102U</i> | <i>0.00235U</i> | <i>0.00449U</i> |
| 1,2-Dichlorobenzene | 2.4 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| 1,2-Dichloroethane | 0.0055 | 0.00179U | 0.00204U | 0.00471U | <i>0.00898U</i> |
| 1,2-Dichloropropane | 0.03 | 0.00895U | 0.0102U | 0.0235U | <i>0.0449U</i> |

| | | | | | |
|-----------------------------|--------|----------|----------|----------|----------|
| 1,3,5-Trimethylbenzene | 0.66 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| 1,3-Dichlorobenzene | 2.3 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| 1,3-Dichloropropane | N/A | 0.00895U | 0.0102U | 0.0235U | 0.0449U |
| 1,4-Dichlorobenzene | 0.037 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| 2,2-Dichloropropane | N/A | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| 2-Butanone (MEK) | 15 | 0.224U | 0.255U | 0.588U | 1.12U |
| 2-Chlorotoluene | N/A | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| 2-Hexanone | 0.11 | 0.0895U | 0.102U | 0.235U | 0.449U |
| 4-Chlorotoluene | N/A | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| 4-Isopropyltoluene | N/A | 0.135 | 0.421 | 19.1 | 3.5 |
| 4-Methyl-2-pentanone (MIBK) | 18 | 0.224U | 0.255U | 0.588U | 1.12U |
| Acetone | 38 | 0.224U | 0.255U | 1.37 | 1.12U |
| Benzene | 0.022 | 0.0112U | 0.0127U | 0.0294U | 0.0561U |
| Bromobenzene | 0.36 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| Bromochloromethane | N/A | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| Bromodichloromethane | 0.0043 | 0.00179U | 0.00204U | 0.00471U | 0.00898U |
| Bromoform | 0.1 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| Bromomethane | 0.024 | 0.0179U | 0.0204U | 0.0471U | 0.0898U |
| Carbon disulfide | 2.9 | 0.0895U | 0.102U | 0.235U | 0.449U |
| Carbon tetrachloride | 0.021 | 0.0112U | 0.0127U | 0.0294U | 0.0561U |
| Chlorobenzene | 0.46 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| Chloroethane | 72 | 0.179U | 0.204U | 0.471U | 0.898U |
| Chloroform | 0.0071 | 0.00358U | 0.00408U | 0.00941U | 0.018U |
| Chloromethane | 0.61 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| Dibromochloromethane | 0.0027 | 0.00448U | 0.0051U | 0.0118U | 0.0224U |
| Dibromomethane | 0.025 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| Dichlorodifluoromethane | 3.9 | 0.0448U | 0.051U | 0.118U | 0.224U |
| Ethylbenzene | 0.13 | 0.0224U | 0.0255U | 0.132 | 0.112U |
| Freon-113 | 310 | 0.0895U | 0.102U | 0.235U | 0.449U |
| Hexachlorobutadiene | 0.02 | 0.0179U | 0.0204U | 0.0471U | 0.0898U |
| Isopropylbenzene (Cumene) | 5.6 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| Methyl-t-butyl ether | 0.33 | 0.0895U | 0.102U | 0.235U | 0.449U |
| Methylene chloride | 0.4 | 0.0895U | 0.102U | 0.235U | 0.449U |
| Naphthalene | 0.038 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| P & M -Xylene | N/A | 0.0448U | 0.051U | 0.118U | 0.224U |
| Styrene | 10 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| Tetrachloroethene | 0.19 | 0.0112U | 0.0127U | 0.0294U | 0.0561U |
| Toluene | 6.7 | 0.0224U | 0.0418 | 0.418 | 0.135 |
| Trichloroethene | 0.011 | 0.00448U | 0.0051U | 0.0118U | 0.0224U |
| Trichlorofluoromethane | 41 | 0.0448U | 0.051U | 0.118U | 0.224U |
| Vinyl acetate | 1.1 | 0.0895U | 0.102U | 0.235U | 0.449U |

| | | | | | |
|---------------------------|--------|-----------|------------------|-----------------|-----------------|
| Vinyl chloride | 0.0008 | 0.000716U | <i>0.000816U</i> | <i>0.00188U</i> | <i>0.00359U</i> |
| Xylenes (total) | 1.5 | 0.0671U | 0.0765U | 0.177U | 0.337U |
| cis-1,2-Dichloroethene | 0.12 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| cis-1,3-Dichloropropene | 0.018 | 0.0112U | 0.0127U | <i>0.0294U</i> | <i>0.0561U</i> |
| n-Butylbenzene | 23 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| n-Propylbenzene | 9.1 | 0.0224U | 0.0255U | 0.215 | 0.112U |
| o-Xylene | N/A | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| sec-Butylbenzene | 42 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| tert-Butylbenzene | 11 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| trans-1,2-Dichloroethene | 1.3 | 0.0224U | 0.0255U | 0.0588U | 0.112U |
| trans-1,3-Dichloropropene | 0.018 | 0.0112U | 0.0127U | <i>0.0294U</i> | <i>0.0561U</i> |

U indicates the analyte was analyzed for but not detected.

The VOC analyte ethylbenzene was detected in sample TH22-24 (0.132mg/Kg) above MTG cleanup levels. Detectable concentrations of other VOC analytes were also observed, but all were below the applicable MTG cleanup levels. Several VOC analytes were not detected but had LOQs above the MTG cleanup levels. These VOC analytes are *italicized* in Table 20.

Table 21 below shows sample results for PAH analysis. Samples with analysis LOQs above the MTG cleanup levels are *italicized*.

Table 21: PAH Results for Sort Yard Circle

| Analyte | Cleanup Level | TH22-24 |
|--------------------------|---------------|----------------|
| | mg/Kg | |
| 1-Methylnaphthalene | 0.41 | 0.0755U |
| 2-Methylnaphthalene | 1.3 | 0.0755U |
| Acenaphthene | 37 | 0.0755U |
| Acenaphthylene | 18 | 0.0755U |
| Anthracene | 390 | 0.0755U |
| Benzo(a)Anthracene | 0.7 | 0.0755U |
| Benzo[a]pyrene | 1.2 | 0.0755U |
| Benzo[b]Fluoranthene | 20 | 0.0755U |
| Benzo[g,h,i]perylene | 1,900 | 0.0755U |
| Benzo[k]fluoranthene | 120 | 0.0755U |
| Chrysene | 600 | 0.0755U |
| Dibenzo[a,h]anthracene | 1.2 | 0.0755U |
| Fluoranthene | 590 | 0.0755U |
| Fluorene | 36 | 0.0755U |
| Indeno[1,2,3-c,d] pyrene | 12 | 0.0755U |
| Naphthalene | 0.038 | <i>0.0604U</i> |
| Phenanthrene | 39 | 0.0755U |
| Pyrene | 87 | 0.0755U |

U indicates the analyte was analyzed for but not detected.

Sample TH22-24 was the only sample analyzed for PAH contaminants within the Sort Yard Circle. All analytes had concentrations that were not detected. The PAH analyte naphthalene was not detected but had analytical LOQs above the MTG cleanup levels.

Table 22 below shows sample results for RCRA Metals analysis. Samples above MTG cleanup level are in **bold** and samples with analysis LOQs above the MTG cleanup level are *italicized*.

Table 22: RCRA Metal Results for Sort Yard Circle

| Analyte | Cleanup Level | TH22-24 | TH22-48 |
|----------|---------------|----------------|----------------|
| | mg/Kg | | |
| Arsenic | 0.2 | 5.04 | 6.46 |
| Barium | 2,100 | 60 | 81.4 |
| Cadmium | 9.1 | 0.301 U | 0.418 U |
| Chromium | 0.089 | 21.2 | 21.4 |
| Lead | N/A | 8.01 | 9.42 |
| Mercury | 0.36 | <i>0.451 U</i> | <i>0.626 U</i> |
| Selenium | 6.9 | 3.01 U | 4.18 U |
| Silver | 11 | 0.752 U | 1.04 U |

U indicates the analyte was analyzed for but not detected.

Laboratory results found the RCRA Metals arsenic and chromium exceeded ADEC cleanup levels at both sample locations. Arsenic ranged from 5.04mg/Kg in sample TH22-22 to 6.46mg/Kg in sample Th22-48. Chromium ranged from 21.2mg/Kg in sample TH22-24 to 20.4mg/Kg in sample TH22-48. Detectable concentrations of additional RCRA Metal analytes were observed, but all were below applicable ADEC cleanup levels. Mercury was not detected in either sample but had analytical LOQs above the MTG cleanup levels.

6.1.1.1.1.1 Discussion of Sort Yard Circle

The Sort Yard Circle consisted of a circular road that enclosed a small sorting area. While characterizing the site, TPEC personnel observed pockets of sheen scattered throughout the Sort Yard Circle Road. TPEC attributed sheen to leaking delivery trucks and heavy equipment that regularly use the Sort Yard Circle Road. Sheen was not observed above the Sort Yard Circle on pooled or surface water, however, sheen was observed on sections of road (1100 Road and 1110 Road) used by truck drivers daily. TPEC personnel dug a single test hole (TH21) in the middle of the Sort Yard Circle Road that was meant to be representative of the entire road. TPEC collected two analytical samples (TH21-0 and TH21-16) from TH21.

Laboratory analysis of soil samples collected from TH21 found no evidence of hydrocarbon contamination. Heated headspace field screening results were found to be below 10ppm. Analytical results detected concentrations of DRO, RRO, and 4-Isopropyltoluene (VOC analyte), in each sample; however, detected concentrations were far below MTG cleanup levels. These results indicate that the sheen observed throughout the road does not have a colossal impact on the soils below.

In addition to TH21, TPEC personnel advanced a test hole (TH22) in the center of the sorting area that was enclosed by the road. Laboratory analysis of soil samples collected from TH22 found evidence of hydrocarbon contamination. Heated headspace field screening results were found to be elevated. Analytical results detected concentrations of DRO, ethylbenzene (VOC analyte), arsenic, and chromium above MTG

cleanup levels. TPEC believes contamination has been accumulating over many years from leaking equipment and spills that take place at the site during logging operations.

Laboratory analysis detected high concentrations of arsenic, ranging from 5.04mg/Kg to 6.46mg/Kg. TPEC believes the exceedance of arsenic is likely due to natural background concentrations and not logging operations. While characterizing the site, TPEC observed a layer of ash in many of the test holes. The layer of ash are the remains of the Novarupta volcanic eruption which took place in 1912. Volcanic eruptions are known to release a natural source of arsenic into the environment. In addition, every analytical sample that was analyzed for RCRA Metal at Danger Bay, including samples that did not detect concentrations of petroleum contamination, had detected concentrations of arsenic more than the MTG cleanup levels. TPEC believes arsenic is naturally occurring at the site and is not a contaminate of concern.

Laboratory analysis also detected high concentration of chromium, ranging from 21.2mg/Kg to 21.4mg/Kg. TPEC believes the exceedance of chromium is also likely due to natural background concentrations. Naturally occurring chromium is present in Alaska and is usually present as chromium III whereas chromium VI is often derived from human activities. Chromium VI has rarely been detected at contaminated sites in Alaska, as this metal is primarily associated with industrial and manufacturing processes. Every analytical sample that was analyzed for RCRA Metal at Danger Bay, including samples that did not detect concentrations of petroleum contamination, had detected concentrations of chromium more than the MTG cleanup level. TPEC believe chromium is naturally occurring at the site and is not a contaminate of concern.

The onsite observations and laboratory analysis of soil samples collected from the Sort Yard Circle correspond to the 2003 Limited Site Assessment findings that diesel fuel is impacting the soils at the Sort Yard Circle.

6.1.1.1.2 Former AST (Sort Yard)

The Former AST at the Sort Yard was located near the boat ramp that entered Outlook Cove. During the site characterization, TPEC dug three test holes (TH23-TH25) (Figure 4, Appendix A). Test holes were advanced until refusal or until PID screening were below 10ppm at depths ranging from 16 to 72-inches bgs. TPEC collected heated headspace screening samples from each test hole. PID results ranged from 0.1ppm to 111.0ppm. TPEC collected seven analytical samples from the Former AST. Tables 22-25 show the confirmation sample results.

Table 23 below shows the sample results for DRO, RRO, and GRO analysis. Samples above the MTG cleanup levels are in **bold**.

Table 23: DRO, RRO, & GRO Results for Former AST

| Sample ID | Approximate Depth (in) | Percent Solids | DRO | RRO | GRO |
|-----------|------------------------|----------------|--------------|-------------|-----------|
| | | | 230 mg/KG | 9,700 mg/Kg | 260 mg/Kg |
| TH23-0 | Surface | 71.5 | 2,420 | 4210 | 4.47 U |
| TH24-0 | Surface | 78.4 | 226 | 728 | 2.94 U |
| TH24-24* | Surface | 79.1 | 271 | 1050 | 3.04 U |
| TH24-16 | 16 | 91.1 | 78.5 | 273 | 2.36 U |
| TH25-24 | 24 | 71.5 | 5,930 | 8060 | 6.20 U |
| TH25-36 | 36 | 68.7 | 1,120 | 2380 | 5.11 U |
| TH25-96* | 36 | 64.8 | 1,430 | 2110 | 5.61 U |

U indicates the analyte was analyzed for but not detected.
 * indicates the sample is a duplicate to the sample above.

In laboratory analysis, only DRO had detected concentrations above MTG cleanup levels. DRO concentrations ranged from 78.5mg/Kg in sample TH24-16 to 5,930mg/Kg in sample TH25-24. Test holes TH23, TH24, and TH25 exceeded MTG cleanup levels for DRO. Samples had detected concentrations for RRO but detected concentrations were below MTG cleanup levels. Laboratory analysis did not detect concentrations of GRO.

Table 24 below shows the sample results for VOC analysis. Samples above the MTG cleanup level are in **bold** and samples with analysis LOQs above the MTG cleanup level are *italicized*.

Table 24: VOC Results for Former AST

| Analyte | Cleanup Level | TH23-0 | TH24-16 | TH24-0 | TH24-24* | TH25-24 | TH25-36 | TH25-96* |
|-----------------------------|---------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | mg/Kg | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 0.022 | <i>0.0358U</i> | 0.0189U | <i>0.0236U</i> | <i>0.0243U</i> | <i>0.0496U</i> | <i>0.0409U</i> | <i>0.0449U</i> |
| 1,1,1-Trichloroethane | 32 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| 1,1,2,2-Tetrachloroethane | 0.003 | <i>0.00358U</i> | 0.00189U | 0.00236U | 0.00243U | <i>0.00496U</i> | <i>0.00409U</i> | <i>0.00449U</i> |
| 1,1,2-Trichloroethane | 0.0014 | <i>0.00143U</i> | 0.000754U | 0.000942U | 0.000973U | <i>0.00198U</i> | <i>0.00163U</i> | <i>0.00179U</i> |
| 1,1-Dichloroethane | 0.092 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| 1,1-Dichloroethene | 1.2 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| 1,1-Dichloropropene | N/A | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| 1,2,3-Trichlorobenzene | 0.15 | 0.0895U | 0.0471U | 0.0589U | 0.0608U | 0.124U | 0.102U | 0.112U |
| 1,2,3-Trichloropropane | 0.000031 | <i>0.00358U</i> | <i>0.00189U</i> | <i>0.00236U</i> | <i>0.00243U</i> | <i>0.00496U</i> | <i>0.00409U</i> | <i>0.00449U</i> |
| 1,2,4-Trichlorobenzene | 0.082 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| 1,2,4-Trimethylbenzene | 0.61 | 0.0895U | 0.0471U | 0.0589U | 0.0608U | 0.124U | 0.102U | 0.112U |
| 1,2-Dibromo-3-chloropropane | N/A | 0.179U | 0.0943U | 0.118U | 0.122U | 0.248U | 0.204U | 0.224U |
| 1,2-Dibromoethane | 0.00024 | <i>0.00179U</i> | <i>0.000943U</i> | <i>0.00118U</i> | <i>0.00122U</i> | <i>0.00248U</i> | <i>0.00204U</i> | <i>0.00224U</i> |
| 1,2-Dichlorobenzene | 2.4 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| 1,2-Dichloroethane | 0.0055 | 0.00358U | 0.00189U | 0.00236U | 0.00243U | 0.00496U | 0.00409U | 0.00449U |
| 1,2-Dichloropropane | 0.03 | 0.0179U | 0.00943U | 0.0118U | 0.0122U | 0.0248U | 0.0204U | 0.0224U |
| 1,3,5-Trimethylbenzene | 0.66 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| 1,3-Dichlorobenzene | 2.3 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| 1,3-Dichloropropane | N/A | 0.0179U | 0.00943U | 0.0118U | 0.0122U | 0.0248U | 0.0204U | 0.0224U |
| 1,4-Dichlorobenzene | 0.037 | <i>0.0447U</i> | 0.0236U | 0.0294U | 0.0304U | <i>0.062U</i> | <i>0.0511U</i> | <i>0.0561U</i> |
| 2,2-Dichloropropane | N/A | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| 2-Butanone (MEK) | 15 | 0.447U | 0.236U | 0.294U | 0.304U | 0.62U | 0.511U | 0.561U |
| 2-Chlorotoluene | N/A | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| 2-Hexanone | 0.11 | <i>0.179U</i> | 0.0943U | <i>0.118U</i> | <i>0.122U</i> | <i>0.248U</i> | <i>0.204U</i> | <i>0.224U</i> |
| 4-Chlorotoluene | N/A | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| 4-Isopropyltoluene | N/A | 0.179U | 0.473 | 0.237 | 0.454 | 0.248U | 0.204U | 0.224U |
| 4-Methyl-2-pentanone (MIBK) | 18 | 0.447U | 0.236U | 0.294U | 0.304U | 0.62U | 0.511U | 0.561U |
| Acetone | 38 | 0.447U | 0.236U | 0.294U | 0.33 | 0.62U | 0.511U | 0.561U |
| Benzene | 0.022 | <i>0.0224U</i> | 0.0118U | 0.0147U | 0.0152U | 0.159 | 0.389 | 0.5 |

| | | | | | | | | |
|---------------------------|--------|----------|-----------|-----------|-----------|----------|----------|----------|
| Bromobenzene | 0.36 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| Bromochloromethane | N/A | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| Bromodichloromethane | 0.0043 | 0.00358U | 0.00189U | 0.00236U | 0.00243U | 0.00496U | 0.00409U | 0.00449U |
| Bromoform | 0.1 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| Bromomethane | 0.024 | 0.0358U | 0.0189U | 0.0236U | 0.0243U | 0.0496U | 0.0409U | 0.0449U |
| Carbon disulfide | 2.9 | 0.179U | 0.0943U | 0.118U | 0.122U | 0.248U | 0.204U | 0.224U |
| Carbon tetrachloride | 0.021 | 0.0224U | 0.0118U | 0.0147U | 0.0152U | 0.031U | 0.0255U | 0.028U |
| Chlorobenzene | 0.46 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| Chloroethane | 72 | 0.358U | 0.189U | 0.236U | 0.243U | 0.496U | 0.409U | 0.449U |
| Chloroform | 0.0071 | 0.00716U | 0.00377U | 0.00471U | 0.00486U | 0.00992U | 0.00817U | 0.00897U |
| Chloromethane | 0.61 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| Dibromochloromethane | 0.0027 | 0.00895U | 0.00471U | 0.00589U | 0.00608U | 0.0124U | 0.0102U | 0.0112U |
| Dibromomethane | 0.025 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| Dichlorodifluoromethane | 3.9 | 0.0895U | 0.0471U | 0.0589U | 0.0608U | 0.124U | 0.102U | 0.112U |
| Ethylbenzene | 0.13 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.103 | 0.114 |
| Freon-113 | 310 | 0.179U | 0.0943U | 0.118U | 0.122U | 0.248U | 0.204U | 0.224U |
| Hexachlorobutadiene | 0.02 | 0.0358U | 0.0189U | 0.0236U | 0.0243U | 0.0496U | 0.0409U | 0.0449U |
| Isopropylbenzene (Cumene) | 5.6 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| Methyl-t-butyl ether | 0.33 | 0.179U | 0.0943U | 0.118U | 0.122U | 0.248U | 0.204U | 0.224U |
| Methylene chloride | 0.4 | 0.179U | 0.0943U | 0.118U | 0.122U | 0.248U | 0.204U | 0.224U |
| Naphthalene | 0.038 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| P & M -Xylene | N/A | 0.0895U | 0.0471U | 0.0589U | 0.0608U | 0.145 | 0.219 | 0.255 |
| Styrene | 10 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| Tetrachloroethene | 0.19 | 0.0224U | 0.0118U | 0.0147U | 0.0152U | 0.031U | 0.0255U | 0.028U |
| Toluene | 6.7 | 0.377 | 0.0236U | 0.0294U | 0.0304U | 0.0911 | 0.0511U | 0.0561U |
| Trichloroethene | 0.011 | 0.00895U | 0.00471U | 0.00589U | 0.00608U | 0.0124U | 0.0102U | 0.0112U |
| Trichlorofluoromethane | 41 | 0.0895U | 0.0471U | 0.0589U | 0.0608U | 0.124U | 0.102U | 0.112U |
| Vinyl acetate | 1.1 | 0.179U | 0.0943U | 0.118U | 0.122U | 0.248U | 0.204U | 0.224U |
| Vinyl chloride | 0.0008 | 0.00143U | 0.000754U | 0.000942U | 0.000973U | 0.00198U | 0.00163U | 0.00179U |
| Xylenes (total) | 1.5 | 0.134U | 0.0707U | 0.0883U | 0.0912U | 0.319 | 0.237 | 0.28 |
| cis-1,2-Dichloroethene | 0.12 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| cis-1,3-Dichloropropene | 0.018 | 0.0224U | 0.0118U | 0.0147U | 0.0152U | 0.031U | 0.0255U | 0.028U |
| n-Butylbenzene | 23 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| n-Propylbenzene | 9.1 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| o-Xylene | N/A | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.174 | 0.0511U | 0.0561U |
| sec-Butylbenzene | 42 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| tert-Butylbenzene | 11 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| trans-1,2-Dichloroethene | 1.3 | 0.0447U | 0.0236U | 0.0294U | 0.0304U | 0.062U | 0.0511U | 0.0561U |
| trans-1,3-Dichloropropene | 0.018 | 0.0224U | 0.0118U | 0.0147U | 0.0152U | 0.031U | 0.0255U | 0.028U |

U indicates the analyte was analyzed for but not detected.
 * indicates the sample is a duplicate to the sample to the left.

The VOC analyte benzene was detected above MTG cleanup levels in samples TH25-24 (0.159mg/Kg), TH25-36 (0.389mg/Kg), and TH25-96 (0.5mg/Kg). Detectable concentrations of other VOC analytes were also observed but were below MTG cleanup levels. Several VOC analytes were not detected but had analytical LOQs above the MTG cleanup levels. These VOC analytes are *italicized* in Table 24.

Table 25 below shows sample results for PAH analysis. Samples with analysis LOQs above the MTG cleanup level are *italicized*.

Table 25: PAH Results for Former AST

| Analyte | Cleanup Level | TH25-36 | TH25-96* |
|--------------------------|---------------|---------|----------------|
| | mg/Kg | | |
| 1-Methylnaphthalene | 0.41 | 0.0515 | 0.0772U |
| 2-Methylnaphthalene | 1.3 | 0.0361 | 0.0772U |
| Acenaphthene | 37 | 0.036U | 0.0772U |
| Acenaphthylene | 18 | 0.036U | 0.0772U |
| Anthracene | 390 | 0.036U | 0.0772U |
| Benzo(a)Anthracene | 0.7 | 0.036U | 0.0772U |
| Benzo[a]pyrene | 1.2 | 0.036U | 0.0772U |
| Benzo[b]Fluoranthene | 20 | 0.036U | 0.0772U |
| Benzo[g,h,i]perylene | 1,900 | 0.036U | 0.0772U |
| Benzo[k]fluoranthene | 120 | 0.036U | 0.0772U |
| Chrysene | 600 | 0.036U | 0.0772U |
| Dibenzo[a,h]anthracene | 1.2 | 0.036U | 0.0772U |
| Fluoranthene | 590 | 0.036U | 0.0772U |
| Fluorene | 36 | 0.0628 | 0.0781 |
| Indeno[1,2,3-c,d] pyrene | 12 | 0.036U | 0.0772U |
| Naphthalene | 0.038 | 0.0288U | <i>0.0618U</i> |
| Phenanthrene | 39 | 0.0614 | 0.0886 |
| Pyrene | 87 | 0.036U | 0.0772U |

U indicates the analyte was analyzed for but not detected.
 * indicates the sample is a duplicate to the sample to the left.

Samples TH25-36 and TH25-96 were the only samples analyzed for PAH contaminants within the location of the Former AST. Laboratory analysis detected fluorene and phenanthrene, but concentrations were below MTG cleanup levels. The PAH analyte naphthalene was not detected but had analytical LOQ above the MTG cleanup levels in sample TH25-96.

6.1.1.1.2.1 Discussion of Former AST

Laboratory analysis of soil samples collected from test holes within the vicinity of the Former AST site found evidence of hydrocarbon contamination. Heated headspace field screening results from two of the three test holes were found to be elevated, above 10ppm (TH24 and TH25). Additionally, visual, and olfactory indicators of hydrocarbon contamination were present in each test hole. Contamination most likely originated from leaking ASTs that were historically store at the site.

Samples collected from the Former AST site had high concentrations of DRO that exceeded MTG cleanup levels. RRO and GRO results were below MTG cleanup levels. These results indicate that the presence of heavy hydrocarbon contaminants such as lubricating oils and gear oils likely do not exist at the site and diesel contamination is likely the only contaminate of concern.

The onsite observations and laboratory analysis of soil samples collected from the Former AST are like the 2003 Limited Site Assessment findings that diesel fuel is the primary contaminate impacting the soils at the Former AST.

6.1.1.1.3 Sort Yard Saw Gas

This site was used to store gasoline for chain saws along with other portable equipment. During the site characterization, TPEC personnel could not pinpoint the location of the Sort Yard Saw Gas site. TPEC did not collect samples for laboratory analysis.

6.1.1.1.4 Sort Yard Scaler Shack

This site was used to store drums of hydraulic fluid and lubricants. During the site characterization, TPEC personnel could not locate the site of the Sort Yard Scaler Shack. TPEC did not collect samples for laboratory analysis.

6.1.1.1.5 Sort Yard Sump

This site was a lined settling pond located at the southern end of the Sort Yard at the lowest elevation. During the site characterization, TPEC personnel could not advance test holes within the Sort Yard Sump. When attempting to advance test holes, mud would immediately flow into the hole preventing TPEC personnel from collecting samples. Photos of the conditions seen at the Sort Yard Sump can be seen in the Photo Log in Appendix D. TPEC did not collect samples for laboratory analysis.

6.1.1.2 Equipment Repair Yard

The Equipment Repair Yard was located on the northeast shoulder of the Sort Yard entry road before the Sort Yard. The area was previously used for equipment repair and storage. During the site characterization, TPEC dug three test holes (TH18-TH20) (Figure 5, Appendix A). Test holes were advanced until refusal at depths ranging from 25 to 42 -inches bgs. TPEC collected heated headspace screening samples from each test hole. PID results ranged from 0.2ppm to 0.3ppm. TPEC did not collect samples for laboratory analysis from the Equipment Repair Yard.

6.1.1.3 Old & New Cobblestone Saw Gas

These sites were the location of the chainsaw fueling stations. During the site characterization, TPEC dug eleven test holes (TH4-TH15) (Figure 6, Appendix A). Test holes were advanced until refusal or encountering groundwater at depths ranging from 12 to 84-inches bgs. TPEC collected heated headspace screening samples from each test hole. PID results ranged from 0.2ppm to 3,264ppm. TPEC collected seven analytical samples from the Old & New Cobblestone Saw Gas. Tables 25-29 show the confirmation sample results.

Table 26 below shows the sample results for DRO, RRO, and GRO analysis. Samples above the MTG cleanup level are in **bold**.

Table 26: DRO, RRO, & GRO Results for Old & New Cobblestone Saw Gas

| Sample ID | Approx. Depth (in) | DRO | RRO | GRO |
|-----------|--------------------|-------------|--------------|-----------|
| | | 230 mg/Kg | 9700 mg/Kg | 260 mg/Kg |
| TH4-0 | 0 | 984 | 4760 | 2.26 U |
| TH4-24 | 24 | 21.5 U | 108 U | 2.44 U |
| TH9-0 | 0 | 51 | 314 | 2.19 U |
| TH14-0 | 0 | 4520 | 16200 | 3.32 U |
| TH15-48 | 48 | 109 | 223 | 37 |
| TH15-72 | 72 | 2370 | 117 U | 72.4 |
| TH15-96* | 96 | 1910 | 113 U | 32 |

U indicates the analyte was analyzed for but not detected.
 * indicates the sample is a duplicate to the sample above.

In laboratory analysis, DRO and RRO had detected concentrations above MTG cleanup levels. DRO concentrations ranged from 51mg/Kg in sample TH9-0 to 4,520mg/Kg in sample TH14-0. DRO exceeded MTG cleanup levels at test holes TH4, TH14, and TH15. RRO concentrations ranged from 223mg/Kg in sample Th15-48 to 16,200mg/Kg in sample TH14-0. RRO exceeded Human Health Ingestion cleanup levels along the surface of test hole TH14. Laboratory analysis detected concentrations of GRO, but detected concentrations were below MTG cleanup levels.

Table 27 below shows the sample results for VOC analysis. Samples above the MTG cleanup level are in **bold** and samples with analysis LOQs above the MTG cleanup level are *italicized*.

Table 27: VOC Results for Old & New Cobblestone Saw Gas

| Analyte | Cleanup Level | TH4-0 | TH4-24 | TH9-0 | TH14-0 | TH15-48 | TH15-72 | TH15-96* |
|-----------------------------|---------------|------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|
| | mg/Kg | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 0.022 | 0.0181U | 0.0196U | 0.0176U | 0.0181U | <i>0.0718U</i> | <i>0.0907U</i> | <i>0.0818U</i> |
| 1,1,1-Trichloroethane | 32 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| 1,1,2,2-Tetrachloroethane | 0.003 | 0.00181U | 0.00196U | 0.00176U | 0.00181U | <i>0.00718U</i> | <i>0.00907U</i> | <i>0.00818U</i> |
| 1,1,2-Trichloroethane | 0.0014 | 0.000724U | 0.000782U | 0.000702U | 0.000724U | <i>0.00287U</i> | <i>0.00363U</i> | <i>0.00327U</i> |
| 1,1-Dichloroethane | 0.092 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | <i>0.113U</i> | <i>0.102U</i> |
| 1,1-Dichloroethene | 1.2 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| 1,1-Dichloropropene | N/A | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| 1,2,3-Trichlorobenzene | 0.15 | 0.0453U | 0.0489U | 0.0439U | 0.0452U | <i>0.179U</i> | <i>0.227U</i> | <i>0.205U</i> |
| 1,2,3-Trichloropropane | 0.000031 | <i>0.00181U</i> | <i>0.00196U</i> | <i>0.00176U</i> | <i>0.00181U</i> | <i>0.00718U</i> | <i>0.00907U</i> | <i>0.00818U</i> |
| 1,2,4-Trichlorobenzene | 0.082 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | <i>0.0897U</i> | <i>0.113U</i> | <i>0.102U</i> |
| 1,2,4-Trimethylbenzene | 0.61 | 0.0453U | 0.0489U | 0.0439U | 0.0452U | 6.88 | 0.281 | 0.295 |
| 1,2-Dibromo-3-chloropropane | N/A | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.454U | 0.409U |
| 1,2-Dibromoethane | 0.00024 | <i>0.000905U</i> | <i>0.000978U</i> | <i>0.000878U</i> | <i>0.000905U</i> | <i>0.00359U</i> | <i>0.00454U</i> | <i>0.00409U</i> |
| 1,2-Dichlorobenzene | 2.4 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |

| | | | | | | | | |
|-----------------------------|--------|----------|----------|----------|----------|--------------|--------------|--------------|
| 1,2-Dichloroethane | 0.0055 | 0.00181U | 0.00196U | 0.00176U | 0.00181U | 0.00718U | 0.00907U | 0.00818U |
| 1,2-Dichloropropane | 0.03 | 0.00905U | 0.00978U | 0.00878U | 0.00905U | 0.0359U | 0.0454U | 0.0409U |
| 1,3,5-Trimethylbenzene | 0.66 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 2.48 | 0.113U | 0.102U |
| 1,3-Dichlorobenzene | 2.3 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| 1,3-Dichloropropane | N/A | 0.00905U | 0.00978U | 0.00878U | 0.00905U | 0.0359U | 0.0454U | 0.0409U |
| 1,4-Dichlorobenzene | 0.037 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| 2,2-Dichloropropane | N/A | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| 2-Butanone (MEK) | 15 | 0.226U | 0.244U | 0.219U | 0.226U | 0.897U | 1.13U | 1.02U |
| 2-Chlorotoluene | N/A | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| 2-Hexanone | 0.11 | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.454U | 0.409U |
| 4-Chlorotoluene | N/A | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| 4-Isopropyltoluene | N/A | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.573 | 0.431 |
| 4-Methyl-2-pentanone (MIBK) | 18 | 0.226U | 0.244U | 0.219U | 0.226U | 0.897U | 1.13U | 1.02U |
| Acetone | 38 | 0.226U | 0.244U | 0.219U | 0.226U | 0.897U | 1.13U | 1.02U |
| Benzene | 0.022 | 0.0113U | 0.0122U | 0.011U | 0.0113U | 0.0449U | 0.0567U | 0.0511U |
| Bromobenzene | 0.36 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| Bromochloromethane | N/A | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| Bromodichloromethane | 0.0043 | 0.00181U | 0.00196U | 0.00176U | 0.00181U | 0.00718U | 0.00907U | 0.00818U |
| Bromoform | 0.1 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| Bromomethane | 0.024 | 0.0181U | 0.0196U | 0.0176U | 0.0181U | 0.0718U | 0.0907U | 0.0818U |
| Carbon disulfide | 2.9 | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.454U | 0.409U |
| Carbon tetrachloride | 0.021 | 0.0113U | 0.0122U | 0.011U | 0.0113U | 0.0449U | 0.0567U | 0.0511U |
| Chlorobenzene | 0.46 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| Chloroethane | 72 | 0.181U | 0.196U | 0.176U | 0.181U | 0.718U | 0.907U | 0.818U |
| Chloroform | 0.0071 | 0.00362U | 0.00391U | 0.00351U | 0.00362U | 0.0144U | 0.0181U | 0.0164U |
| Chloromethane | 0.61 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| Dibromochloromethane | 0.0027 | 0.00453U | 0.00489U | 0.00439U | 0.00452U | 0.0179U | 0.0227U | 0.0205U |
| Dibromomethane | 0.025 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| Dichlorodifluoromethane | 3.9 | 0.0453U | 0.0489U | 0.0439U | 0.0452U | 0.179U | 0.227U | 0.205U |
| Ethylbenzene | 0.13 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.161 | 0.113U | 0.102U |
| Freon-113 | 310 | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.454U | 0.409U |
| Hexachlorobutadiene | 0.02 | 0.0181U | 0.0196U | 0.0176U | 0.0181U | 0.0718U | 0.0907U | 0.0818U |
| Isopropylbenzene (Cumene) | 5.6 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.858 | 0.113U | 0.102U |
| Methyl-t-butyl ether | 0.33 | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.454U | 0.409U |
| Methylene chloride | 0.4 | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.454U | 0.409U |
| Naphthalene | 0.038 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 2.82 | 0.205 | 0.134 |
| P & M -Xylene | N/A | 0.0453U | 0.0489U | 0.0439U | 0.0452U | 4.52 | 0.227U | 0.205U |
| Styrene | 10 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| Tetrachloroethene | 0.19 | 0.0113U | 0.0122U | 0.011U | 0.0113U | 0.0449U | 0.0567U | 0.0511U |
| Toluene | 6.7 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |

| | | | | | | | | |
|---------------------------|--------|-----------|-----------|-----------|-----------|-----------------|-----------------|-----------------|
| Trichloroethene | 0.011 | 0.00453U | 0.00489U | 0.00439U | 0.00452U | <i>0.0179U</i> | <i>0.0227U</i> | <i>0.0205U</i> |
| Trichlorofluoromethane | 41 | 0.0453U | 0.0489U | 0.0439U | 0.0452U | 0.179U | 0.227U | 0.205U |
| Vinyl acetate | 1.1 | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.454U | 0.409U |
| Vinyl chloride | 0.0008 | 0.000724U | 0.000782U | 0.000702U | 0.000724U | <i>0.00287U</i> | <i>0.00363U</i> | <i>0.00327U</i> |
| Xylenes (total) | 1.5 | 0.0679U | 0.0733U | 0.0658U | 0.0679U | 5.08 | 0.34U | 0.307U |
| cis-1,2-Dichloroethene | 0.12 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| cis-1,3-Dichloropropene | 0.018 | 0.0113U | 0.0122U | 0.011U | 0.0113U | <i>0.0449U</i> | <i>0.0567U</i> | <i>0.0511U</i> |
| n-Butylbenzene | 23 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| n-Propylbenzene | 9.1 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 1.95 | 0.339 | 0.314 |
| o-Xylene | N/A | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.562 | 0.113U | 0.102U |
| sec-Butylbenzene | 42 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.603 | 1.01 | 0.758 |
| tert-Butylbenzene | 11 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| trans-1,2-Dichloroethene | 1.3 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.113U | 0.102U |
| trans-1,3-Dichloropropene | 0.018 | 0.0113U | 0.0122U | 0.011U | 0.0113U | <i>0.0449U</i> | <i>0.0567U</i> | <i>0.0511U</i> |

U indicates the analyte was analyzed for but not detected.
 * indicates the sample is a duplicate to the sample to the left.

The VOC analytes 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, ethylbenzene, naphthalene, and xylenes were detected above MTG cleanup levels. Analytes that exceeded cleanup levels originated from samples collected within test hole TH15. Detectable concentrations of other VOC analytes were also observed, but all were below MTG cleanup levels. Several VOC analytes were not detected but had analytical LOQs above the MTG cleanup levels. These VOC analytes are *italicized* in in Table 27.

Table 28 below shows sample results for PAH analysis. Samples above MTG cleanup levels are in **bold** and samples with analysis LOQs above MTG cleanup levels are *italicized*.

Table 28: PAH Results for Old & New Cobblestone Saw Gas

| Analyte | Cleanup Level | TH9-0 | TH15-72 | TH15-96* |
|------------------------|---------------|---------|--------------|-------------|
| | mg/Kg | | | |
| 1-Methylnaphthalene | 0.41 | 0.0278U | 0.527 | 0.82 |
| 2-Methylnaphthalene | 1.3 | 0.0278U | 0.599 | 0.973 |
| Acenaphthene | 37 | 0.0278U | 0.147U | 0.142U |
| Acenaphthylene | 18 | 0.0278U | 0.147U | 0.142U |
| Anthracene | 390 | 0.0278U | 0.147U | 0.142U |
| Benzo(a)Anthracene | 0.7 | 0.0278U | 0.147U | 0.142U |
| Benzo[a]pyrene | 1.2 | 0.0278U | 0.147U | 0.142U |
| Benzo[b]Fluoranthene | 20 | 0.0278U | 0.147U | 0.142U |
| Benzo[g,h,i]perylene | 1,900 | 0.0278U | 0.147U | 0.142U |
| Benzo[k]fluoranthene | 120 | 0.0278U | 0.147U | 0.142U |
| Chrysene | 600 | 0.0278U | 0.147U | 0.142U |
| Dibenzo[a,h]anthracene | 1.2 | 0.0278U | 0.147U | 0.142U |
| Fluoranthene | 590 | 0.0278U | 0.147U | 0.142U |

| | | | | |
|--------------------------|-------|---------|---------------|---------------|
| Fluorene | 36 | 0.0278U | 0.219 | 0.142U |
| Indeno[1,2,3-c,d] pyrene | 12 | 0.0278U | 0.147U | 0.142U |
| Naphthalene | 0.038 | 0.0222U | <i>0.117U</i> | <i>0.114U</i> |
| Phenanthrene | 39 | 0.0278U | 0.215 | 0.263 |
| Pyrene | 87 | 0.0278U | 0.147U | 0.142U |

U indicates the analyte was analyzed for but not detected.
 * indicates the sample is a duplicate to the sample to the left.

Samples TH9-0, TH15-72, and TH15-96 were the only samples analyzed for PAH contaminants within the Old & New Cobblestone Saw Gas. Laboratory analysis detected the following PAH analytes: 1-methylnaphthalene, 2-methylnaphthalene, fluorene, and phenanthrene. Only one analyte, 1-methylnaphthalene, had detected concentrations above MTG cleanup levels. Both samples (TH15-72 and TH15-96) that exceeded cleanup levels for 1-methylnaphthalene originated from test hole TH15. The PAH analyte naphthalene was not detected but had analytical LOQs above the MTG cleanup levels in samples TH15-72 and TH15-96.

Table 29 below shows sample results for EDB analysis.

Table 29: EDB Results for Old & New Cobblestone Saw Gas

| Analyte | Cleanup Level | TH4-0 | TH4-24 | TH9-0 |
|-------------------|---------------|-----------|-----------|----------|
| | mg/Kg | | | |
| 1,2-Dibromoethane | 0.00024 | 0.000113U | 0.000122U | 0.00011U |

U indicates the analyte was analyzed for but not detected.

Samples TH9-0, TH15-72, and TH15-96 were the only samples analyzed for EDB within the Old & New Cobblestone Saw Gas site. EDB was not detected in any of the samples.

Table 30 below shows sample results for RCRA Metals analysis. Samples above MTG cleanup level are in bold.

Table 30: RCRA Metal Results for Old & New Cobblestone Saw Gas

| Analyte | Cleanup Level | TH4-0 | TH4-24 | TH9-0 |
|----------|---------------|-------------|-------------|-------------|
| | mg/Kg | | | |
| Arsenic | 0.2 | 8.48 | 10.1 | 18.2 |
| Barium | 2100 | 32.7 | 27.1 | 29.5 |
| Cadmium | 9.1 | 1.19 | 0.214 U | 0.217 U |
| Chromium | 0.089 | 31.2 | 30.9 | 23.9 |
| Lead | N/A | 22.9 | 12.7 | 11.5 |
| Mercury | 0.36 | 0.323 U | 0.321 U | 0.325 U |
| Selenium | 6.9 | 2.15 U | 2.14 U | 2.17 U |
| Silver | 11 | 0.538 U | 0.535 U | 0.542 U |

U indicates the analyte was analyzed for but not detected.

Laboratory results found the RCRA Metals arsenic and chromium exceeded ADEC cleanup levels in each sample. Arsenic ranged from 8.48mg/Kg in sample TH4-0 to 18.2mg/Kg in sample TH9-0. Chromium ranged from 23.9mg/Kg in sample TH9-0 to 31.2mg/Kg in sample TH4-0. Detectable concentrations of additional RCRA Metal analytes were observed, but all were below applicable ADEC cleanup levels.

Table 31 below shows sample results for PCB analysis.

Table 31: PCB Results for Old & New Cobblestone Saw Gas

| Analyte | Cleanup Level | TH4-0 | TH4-24 | TH9-0 | TH14-0 |
|--------------|---------------|---------|---------|---------|---------|
| | mg/Kg | | | | |
| Aroclor 1016 | 1.0 | 0.0553U | 0.0534U | 0.0556U | 0.0623U |
| Aroclor 1221 | 1.0 | 0.111U | 0.107U | 0.111U | 0.125U |
| Aroclor 1232 | 1.0 | 0.0553U | 0.0534U | 0.0556U | 0.0623U |
| Aroclor 1242 | 1.0 | 0.0553U | 0.0534U | 0.0556U | 0.0623U |
| Aroclor 1248 | 1.0 | 0.0553U | 0.0534U | 0.0556U | 0.0623U |
| Aroclor 1254 | 1.0 | 0.0553U | 0.0534U | 0.0556U | 0.0623U |
| Aroclor 1260 | 1.0 | 0.0553U | 0.0534U | 0.0556U | 0.0623U |

U indicates the analyte was analyzed for but not detected.

Laboratory analysis did not detect PCB in any of the samples within the Old & New Cobblestone Saw Gas site.

6.1.1.3.1 Discussion of Old and New Cobblestone Gas

Prior to arriving on site, TPEC was unaware of the exact location of the Old or New Cobblestone Saw Gas sites. TPEC reviewed all available documents regarding the subject property and learned that the Old and New Cobblestone Saw Gas sites were approximately 120-feet from one another. After arriving onsite, TPEC was informed of a junction in the road referred to as Cobblestone. TPEC began its investigation of the Old and New Cobblestone Saw Gas sites at the Cobblestone Junction.

While investigating the Cobblestone Junction, TPEC identified two pieces of dilapidated heavy equipment used for logging operations and 55-gallon drums stored along the side of the road. TPEC observed surface staining beneath both pieces of equipment with a slight odor observed at one of them. TPEC dug two test holes (TH4 and TH5), one at the area where surface staining was observed with a slight odor (TH4) and one at the area where 55-gallon drums were stored (TH5). TPEC collected heated headspace screening samples from each test hole. All screening samples came back below 1ppm on the PID. TPEC collected two analytical samples from TH4 (TH4-0 and TH4-24). Laboratory analysis detected concentrations of DRO (984mg/Kg), arsenic (8.48mg/Kg), and chromium (31.2mg/Kg) in sample TH4-0 above MTG cleanup levels. The deeper sample, TH4-24, had detected concentrations of arsenic (10.1mg/Kg) and chromium (30.9mg/Kg) above MTG cleanup levels. TPEC believes the exceedance of arsenic and chromium were likely due to background concentrations that are common in the Kodiak Archipelago. The absence of DRO in sample TH4-24 indicates that contamination is likely superficial. TPEC did not observe any other areas of environmental concern at the Cobblestone Junction.

Aerial imagery showed two pullouts east of the Cobblestone Junction along the northern side of the road. The pullouts were approximately 120-feet from each other, matching the description of the 2003 Limited Site Assessment. Coincidentally, a third pullout was located on the southern side of the road approximately

120-feet from one of the northern pullouts (Figure 6, Appendix A). TPEC investigated each pullout to determine if they were the possible locations of the Old and New Cobblestone Saw Gas sites. While investigating the northern pullouts, TPEC personnel did not observe any signs of contamination; however, dug three test holes at each pullout (TH6-TH8 and TH10-TH12). Heated headspace screening samples ranged from 0.3 to 3.5ppm. TPEC did not collect any analytical samples from test holes along the northern pullouts. TPEC did however observe surface staining at the southern pullout. TPEC dug one test hole (TH9) where surface staining was observed and collected field screenings. Field screenings were below 1ppm. TPEC collected one analytical sample (TH9-0) along the surface where staining was observed. Laboratory analysis detected concentrations of DRO (51mg/Kg), RRO (223mg/Kg), arsenic (18.2mg/Kg), and chromium (23.9mg/Kg). Arsenic and chromium were above MTG cleanup levels; however, TPEC believes these exceedances were due to natural background concentrations. See explanation in Section 6.1.1.1.1.1.

Following the investigation of the three pullouts, TPEC spoke with a logger who was passing by named Russ Obermayer. Mr. Obermayer mentioned that he had previously worked for BTI and had over thirty years of work experience at the subject property. Mr. Obermayer indicated that the Old and New Cobblestone Saw Gas sites were located at the Cobblestone Junction. Mr. Obermayer was able to provide additional information on other outlier sites. Following the interaction with Mr. Obermayer, TPEC returned to the Cobblestone Junction and randomly dug three additional test holes (TH13-TH15).

TH14 was advanced where surface staining was observed near TH4 beneath the second piece of heavy equipment. TPEC collected an analytical sample along the surface of the stained soils (TH14-0). Laboratory analysis detected DRO (4,520mg/Kg), RRO (16,200mg/Kg), arsenic (8.9mg/Kg), and chromium (27.3mg/Kg) concentrations above MTG cleanup levels. Similar to TH4-0, VOC analysis at TH14-0 did not detect any analytes above MTG cleanup levels indicating that the stain had likely been there for some time. TPEC believes the contamination at TH14 was like TH4 in that the contamination was superficial and exceedances of arsenic and chromium were likely due to background concentrations.

TPEC discovered historical contamination at TH15. TPEC observed a strong odor diesel odor while advancing the test hole. PID screening results higher than 10ppm were observed at depths ranging from 24 to 84-inches bgs. Analytical samples from TH15 exceeded MTG cleanup levels for DRO, select VOC analytes, and one PAH analyte, 1-methylnaphthlene. TPEC believes this was the location of either the Old or New Cobblestone Gas site.

Following the investigation, TPEC personnel was reviewing aerial imagery to create figures for this report. While reviewing aerial imagery, TPEC personnel observed that TH15 was located at the southern end of a pullout that was approximately 120-feet long. During the site reconnaissance, TPEC did not observe any signs of contamination at the pullout; however, TPEC recommends a test hole be dug at the northern end of the pullout to determine if contamination is present. If so, it may be the location other Cobblestone Saw Gas site.

6.1.1.4 6.5 Mile 1110 Road Saw Gas

This site was the former chain saw fueling station. During the site characterization, TPEC randomly dug three test holes (TH1-TH3) (Figure 7, Appendix A). Test holes were dug to refusal at a depth of approximately 8-inches bgs. TPEC collected heated headspace screening samples from each test hole. PID results ranged from 0.1ppm to 0.4ppm. TPEC did not collect samples for laboratory analysis.

6.1.1.5 Crushed Drum and Diesel Stockpiles

This site previously had two uncovered stockpiles (crushed drum and diesel) that were formed during remedial efforts in 1997. During the site characterization, TPEC personnel could not locate any stockpiles. TPEC did not collect samples for laboratory analysis.

6.1.1.6 6.5 Mile Rock Pit Debris Area

This site was the former rock pit used as a disposal area for miscellaneous refuse. During the site characterization, TPEC dug three test holes (TH26-TH28) (Figure 8, Appendix A). Test holes were advanced until refusal or until reaching groundwater at depths ranging from 6 to 24-inches bgs. TPEC collected heated headspace screening samples from each test hole. PID results ranged from 4.9ppm to 177.8ppm. TPEC collected two analytical samples from the 6.5 Mile Rock Pit Debris Area. Tables 30-32 show the confirmation sample results.

Table 32 below shows the sample results for DRO, RRO, and GRO analysis. Samples above the MTG cleanup level are in **bold**.

Table 32: DRO, RRO, & GRO Results for 6.5 Mile Rock Pit Debris Area

| Sample ID | Approx. Depth (in) | DRO | RRO | GRO |
|-----------|--------------------|------------|------------|-----------|
| | | 230 mg/Kg | 9700 mg/Kg | 260 mg/Kg |
| TH27-0 | 0 | 23.1 U | 115 U | 3.16 U |
| TH27-24 | 24 | 252 | 114 U | 2.24 U |

U indicates the analyte was analyzed for but not detected.

In laboratory analysis, DRO had a detected concentration above MTG cleanup levels. DRO exceeded MTG cleanup levels in sample TH27-24 (252mg/Kg). Laboratory analysis did not detect RRO and GRO concentrations.

Table 33 below shows the sample results for VOC analysis. Samples with analysis LOQs above the MTG cleanup level are *italicized*.

Table 33: VOC Results for 6.5 Mile Rock Pit Debris Area

| Analyte | Cleanup Level | TH27-0 | TH27-24 |
|---------------------------|---------------|-----------------|-----------------|
| | mg/Kg | | |
| 1,1,1,2-Tetrachloroethane | 0.022 | <i>0.0253U</i> | 0.0179U |
| 1,1,1-Trichloroethane | 32 | 0.0316U | 0.0224U |
| 1,1,2,2-Tetrachloroethane | 0.003 | 0.00253U | 0.00179U |
| 1,1,2-Trichloroethane | 0.0014 | 0.00101U | 0.000717U |
| 1,1-Dichloroethane | 0.092 | 0.0316U | 0.0224U |
| 1,1-Dichloroethene | 1.2 | 0.0316U | 0.0224U |
| 1,1-Dichloropropene | N/A | 0.0316U | 0.0224U |
| 1,2,3-Trichlorobenzene | 0.15 | 0.0632U | 0.0448U |
| 1,2,3-Trichloropropane | 0.000031 | <i>0.00253U</i> | <i>0.00179U</i> |

| | | | |
|--------------------------------|---------|-----------------|------------------|
| 1,2,4-Trichlorobenzene | 0.082 | 0.0316U | 0.0224U |
| 1,2,4-Trimethylbenzene | 0.61 | 0.0632U | 0.0448U |
| 1,2-Dibromo-3-chloropropane | N/A | 0.126U | 0.0897U |
| 1,2-Dibromoethane | 0.00024 | <i>0.00126U</i> | <i>0.000897U</i> |
| 1,2-Dichlorobenzene | 2.4 | 0.0316U | 0.0224U |
| 1,2-Dichloroethane | 0.0055 | 0.00253U | 0.00179U |
| 1,2-Dichloropropane | 0.03 | 0.0126U | 0.00897U |
| 1,3,5-Trimethylbenzene | 0.66 | 0.0316U | 0.0224U |
| 1,3-Dichlorobenzene | 2.3 | 0.0316U | 0.0224U |
| 1,3-Dichloropropane | N/A | 0.0126U | 0.00897U |
| 1,4-Dichlorobenzene | 0.037 | 0.0316U | 0.0224U |
| 2,2-Dichloropropane | N/A | 0.0316U | 0.0224U |
| 2-Butanone (MEK) | 15 | 0.316U | 0.224U |
| 2-Chlorotoluene | N/A | 0.0316U | 0.0224U |
| 2-Hexanone | 0.11 | <i>0.126U</i> | 0.0897U |
| 4-Chlorotoluene | N/A | 0.0316U | 0.0224U |
| 4-Isopropyltoluene | N/A | 0.126U | 0.0897U |
| 4-Methyl-2-pentanone (MIBK) | 18 | 0.316U | 0.224U |
| Acetone | 38 | 0.316U | 0.224U |
| Benzene | 0.022 | 0.0158U | 0.0112U |
| Bromobenzene | 0.36 | 0.0316U | 0.0224U |
| Bromochloromethane | N/A | 0.0316U | 0.0224U |
| Bromodichloromethane | 0.0043 | 0.00253U | 0.00179U |
| Bromoform | 0.1 | 0.0316U | 0.0224U |
| Bromomethane | 0.024 | <i>0.0253U</i> | 0.0179U |
| Carbon disulfide | 2.9 | 0.126U | 0.0897U |
| Carbon tetrachloride | 0.021 | 0.0158U | 0.0112U |
| Chlorobenzene | 0.46 | 0.0316U | 0.0224U |
| Chloroethane | 72 | 0.253U | 0.179U |
| Chloroform | 0.0071 | 0.00506U | 0.00359U |
| Chloromethane | 0.61 | 0.0316U | 0.0224U |
| Dibromochloromethane | 0.0027 | <i>0.00632U</i> | <i>0.00448U</i> |
| Dibromomethane | 0.025 | <i>0.0316U</i> | 0.0224U |
| Dichlorodifluoromethane | 3.9 | 0.0632U | 0.0448U |
| Ethylbenzene | 0.13 | 0.0316U | 0.0224U |
| Freon-113 | 310 | 0.126U | 0.0897U |
| Hexachlorobutadiene | 0.02 | <i>0.0253U</i> | 0.0179U |
| Isopropylbenzene (Cumene) | 5.6 | 0.0316U | 0.0224U |
| Methyl-t-butyl ether | 0.33 | 0.126U | 0.0897U |
| Methylene chloride | 0.4 | 0.126U | 0.0897U |

| | | | |
|---------------------------|--------|-----------------|-----------|
| Naphthalene | 0.038 | 0.0316U | 0.0224U |
| P & M -Xylene | N/A | 0.0632U | 0.0448U |
| Styrene | 10 | 0.0316U | 0.0224U |
| Tetrachloroethene | 0.19 | 0.0158U | 0.0112U |
| Toluene | 6.7 | 0.0316U | 0.0224U |
| Trichloroethene | 0.011 | 0.00632U | 0.00448U |
| Trichlorofluoromethane | 41 | 0.0632U | 0.0448U |
| Vinyl acetate | 1.1 | 0.126U | 0.0897U |
| Vinyl chloride | 0.0008 | <i>0.00101U</i> | 0.000717U |
| Xylenes (total) | 1.5 | 0.0949U | 0.0672U |
| cis-1,2-Dichloroethene | 0.12 | 0.0316U | 0.0224U |
| cis-1,3-Dichloropropene | 0.018 | 0.0158U | 0.0112U |
| n-Butylbenzene | 23 | 0.0316U | 0.0224U |
| n-Propylbenzene | 9.1 | 0.0316U | 0.0224U |
| o-Xylene | N/A | 0.0316U | 0.0224U |
| sec-Butylbenzene | 42 | 0.0316U | 0.0224U |
| tert-Butylbenzene | 11 | 0.0316U | 0.0224U |
| trans-1,2-Dichloroethene | 1.3 | 0.0316U | 0.0224U |
| trans-1,3-Dichloropropene | 0.018 | 0.0158U | 0.0112U |

U indicates the analyte was analyzed for but not detected.

Laboratory analysis did not detect any VOC analytes. Several VOC analytes were not detected but had analytical LOQs above the MTG cleanup levels. These VOC analytes are *italicized* in Table 33.

Table 34 below shows sample results for PAH analysis.

Table 34: PAH Results for 6.5 Mile Rock Pit Debris Area

| Analyte | Cleanup Level | TH27-24 |
|----------------------|---------------|---------|
| | mg/Kg | |
| 1-Methylnaphthalene | 0.41 | 0.0286U |
| 2-Methylnaphthalene | 1.3 | 0.0286U |
| Acenaphthene | 37 | 0.0286U |
| Acenaphthylene | 18 | 0.0286U |
| Anthracene | 390 | 0.0286U |
| Benzo(a)Anthracene | 0.7 | 0.0286U |
| Benzo[a]pyrene | 1.2 | 0.0286U |
| Benzo[b]Fluoranthene | 20 | 0.0286U |
| Benzo[g,h,i]perylene | 1,900 | 0.0286U |
| Benzo[k]fluoranthene | 120 | 0.0286U |
| Chrysene | 600 | 0.0286U |

| | | |
|--------------------------|-------|---------|
| Dibenzo[a,h]anthracene | 1.2 | 0.0286U |
| Fluoranthene | 590 | 0.0286U |
| Fluorene | 36 | 0.0286U |
| Indeno[1,2,3-c,d] pyrene | 12 | 0.0286U |
| Naphthalene | 0.038 | 0.0229U |
| Phenanthrene | 39 | 0.0286U |
| Pyrene | 87 | 0.0286U |

U indicates the analyte was analyzed for but not detected.

Sample TH27-24 was the only sample analyzed for PAH within the 6.5 Mile Rock Pit Debris Area. Laboratory analysis did not detect any PAH analytes.

6.1.1.6.1 Discussion of 6.5 Mile Rock Pit Debris Area

Prior to arriving on site, TPEC was unaware of the exact location of the 6.5 Mile Rock Pit Debris Area. Mr. Graff, Afognak Camp Manager, was familiar with the site and was able to make certain that TPEC personnel was in the correct location. TPEC personnel inspected the site looking for any signs of contamination but could not identify any. TPEC advanced three test holes randomly at the site. TPEC collected two analytical samples from TH27, the only test hole that had a field screening exceed 10ppm. Sample TH27-24 detected a DRO (252mg/Kg) concentration slightly above the MTG cleanup levels along the groundwater interface. TPEC also observed a hydrocarbon sheen on the surface of the groundwater which is discussed in Section 6.2.1.

6.1.1.7 Crushed Drum Disposal Area

This site is located southwest of the landfill and is the location of the 1997 Remedial Action which resulted in the removal of approximately two dozen crushed drums and 30 cubic yards of contaminated soil. During the site characterization, TPEC personnel could not locate the Crushed Drum Disposal Area. TPEC did not collect samples for laboratory analysis.

6.1.1.8 Petticoat Saw Gas

This site is located on 1100 Road and was the site of a former chain saw fueling area. During the site characterization, TPEC dug two test holes (TH16 and TH17) (Figure 9, Appendix A). Test holes were advanced until refusal at depths ranging from 60 to 70-inches bgs. TPEC collected heated headspace screening samples from each test hole. PID results ranged from 0.2ppm to 16.8ppm. TPEC collected one analytical sample from the Petticoat Saw Gas site. Tables 33-35 show the confirmation sample results.

Table 35 below shows the sample results for DRO, RRO, and GRO analysis.

Table 35: DRO, RRO, & GRO Results for Petticoat Saw Gas

| Sample ID | Approx. Depth (in) | DRO | RRO | GRO |
|-----------|--------------------|-----------|------------|-----------|
| | | 230 mg/Kg | 9700 mg/Kg | 260 mg/Kg |
| TH16-36 | 36 | 36.2 U | 181 U | 8.16 U |

U indicates the analyte was analyzed for but not detected.

Laboratory analysis did not detect any GRO, DRO, or RRO analytes.

Table 36 below shows the sample results for VOC analysis. Samples with analysis LOQs above the MTG cleanup level are *italicized*.

Table 36: VOC Results for Petticoat Saw Gas

| Analyte | Cleanup Level | TH16-36 |
|-----------------------------|---------------|-----------------|
| | mg/Kg | |
| 1,1,1,2-Tetrachloroethane | 0.022 | <i>0.0653U</i> |
| 1,1,1-Trichloroethane | 32 | 0.0816U |
| 1,1,2,2-Tetrachloroethane | 0.003 | <i>0.00653U</i> |
| 1,1,2-Trichloroethane | 0.0014 | <i>0.00261U</i> |
| 1,1-Dichloroethane | 0.092 | 0.0816U |
| 1,1-Dichloroethene | 1.2 | 0.0816U |
| 1,1-Dichloropropene | N/A | 0.0816U |
| 1,2,3-Trichlorobenzene | 0.15 | <i>0.163U</i> |
| 1,2,3-Trichloropropane | 0.000031 | <i>0.00653U</i> |
| 1,2,4-Trichlorobenzene | 0.082 | 0.0816U |
| 1,2,4-Trimethylbenzene | 0.61 | 0.163U |
| 1,2-Dibromo-3-chloropropane | N/A | 0.327U |
| 1,2-Dibromoethane | 0.00024 | <i>0.00327U</i> |
| 1,2-Dichlorobenzene | 2.4 | 0.0816U |
| 1,2-Dichloroethane | 0.0055 | <i>0.00653U</i> |
| 1,2-Dichloropropane | 0.03 | <i>0.0327U</i> |
| 1,3,5-Trimethylbenzene | 0.66 | 0.0816U |
| 1,3-Dichlorobenzene | 2.3 | 0.0816U |
| 1,3-Dichloropropane | N/A | 0.0327U |
| 1,4-Dichlorobenzene | 0.037 | <i>0.0816U</i> |
| 2,2-Dichloropropane | N/A | 0.0816U |
| 2-Butanone (MEK) | 15 | 0.816U |
| 2-Chlorotoluene | N/A | 0.0816U |
| 2-Hexanone | 0.11 | <i>0.327U</i> |
| 4-Chlorotoluene | N/A | 0.0816U |
| 4-Isopropyltoluene | N/A | 0.327U |
| 4-Methyl-2-pentanone (MIBK) | 18 | 0.816U |
| Acetone | 38 | 0.816U |
| Benzene | 0.022 | <i>0.0408U</i> |
| Bromobenzene | 0.36 | 0.0816U |
| Bromochloromethane | N/A | 0.0816U |
| Bromodichloromethane | 0.0043 | <i>0.00653U</i> |
| Bromoform | 0.1 | 0.0816U |
| Bromomethane | 0.024 | <i>0.0653U</i> |
| Carbon disulfide | 2.9 | 0.327U |

| | | |
|---------------------------|--------|-----------------|
| Carbon tetrachloride | 0.021 | <i>0.0408U</i> |
| Chlorobenzene | 0.46 | 0.0816U |
| Chloroethane | 72 | 0.653U |
| Chloroform | 0.0071 | <i>0.0131U</i> |
| Chloromethane | 0.61 | 0.0816U |
| Dibromochloromethane | 0.0027 | <i>0.0163U</i> |
| Dibromomethane | 0.025 | <i>0.0816U</i> |
| Dichlorodifluoromethane | 3.9 | 0.163U |
| Ethylbenzene | 0.13 | 0.0816U |
| Freon-113 | 310 | 0.327U |
| Hexachlorobutadiene | 0.02 | <i>0.0653U</i> |
| Isopropylbenzene (Cumene) | 5.6 | 0.0816U |
| Methyl-t-butyl ether | 0.33 | 0.327U |
| Methylene chloride | 0.4 | 0.327U |
| Naphthalene | 0.038 | <i>0.0816U</i> |
| P & M -Xylene | N/A | 0.163U |
| Styrene | 10 | 0.0816U |
| Tetrachloroethene | 0.19 | 0.0408U |
| Toluene | 6.7 | 0.0816U |
| Trichloroethene | 0.011 | <i>0.0163U</i> |
| Trichlorofluoromethane | 41 | 0.163U |
| Vinyl acetate | 1.1 | 0.327U |
| Vinyl chloride | 0.0008 | <i>0.00261U</i> |
| Xylenes (total) | 1.5 | 0.245U |
| cis-1,2-Dichloroethene | 0.12 | 0.0816U |
| cis-1,3-Dichloropropene | 0.018 | <i>0.0408U</i> |
| n-Butylbenzene | 23 | 0.0816U |
| n-Propylbenzene | 9.1 | 0.0816U |
| o-Xylene | N/A | 0.0816U |
| sec-Butylbenzene | 42 | 0.0816U |
| tert-Butylbenzene | 11 | 0.0816U |
| trans-1,2-Dichloroethene | 1.3 | 0.0816U |
| trans-1,3-Dichloropropene | 0.018 | <i>0.0408U</i> |

U indicates the analyte was analyzed for but not detected.

Laboratory analysis did not detect any VOC analytes. Several VOC analytes were not detected but had analytical LOQs above the MTG cleanup levels. These VOC analytes are *italicized* in Table 36.

Table 37 shows sample results for PAH analysis.

Table 37: PAH Results for Petticoat Saw Gas

| Analyte | Cleanup Level | TH16-34 |
|--------------------------|---------------|---------|
| | mg/Kg | |
| 1-Methylnaphthalene | 0.41 | 0.0455U |
| 2-Methylnaphthalene | 1.3 | 0.0455U |
| Acenaphthene | 37 | 0.0455U |
| Acenaphthylene | 18 | 0.0455U |
| Anthracene | 390 | 0.0455U |
| Benzo(a)Anthracene | 0.7 | 0.0455U |
| Benzo[a]pyrene | 1.2 | 0.0455U |
| Benzo[b]Fluoranthene | 20 | 0.0455U |
| Benzo[g,h,i]perylene | 1,900 | 0.0455U |
| Benzo[k]fluoranthene | 120 | 0.0455U |
| Chrysene | 600 | 0.0455U |
| Dibenzo[a,h]anthracene | 1.2 | 0.0455U |
| Fluoranthene | 590 | 0.0455U |
| Fluorene | 36 | 0.0455U |
| Indeno[1,2,3-c,d] pyrene | 12 | 0.0455U |
| Naphthalene | 0.038 | 0.0364U |
| Phenanthrene | 39 | 0.0455U |
| Pyrene | 87 | 0.0455U |

U indicates the analyte was analyzed for but not detected.

Sample TH16-34 was the only sample analyzed for PAH within the Petticoat Saw Gas site. Laboratory analysis did not detect any PAH analytes.

6.1.1.9 1.0 Mile 1100 Road Saw Gas

This site is located on 1100 Road and was the site of a former chain saw fueling area. During the site characterization, TPEC randomly dug three test holes (Figure 10, Appendix A). Test holes were advanced to refusal at depths ranging from 6 to 60-inches bgs. TPEC collected heated headspace screening samples from each test hole. PID results ranged from 0.2ppm to 0.7ppm. TPEC did not collect samples for laboratory analysis from 1.0 Mile 1110 Road Saw Gas.

6.1.2 Bioremediation Treatment Cell

The Bioremediation Treatment Cell was divided into two sections, north and south. During the site characterization, TPEC advanced 25 test holes at each half of the Bioremediation Treatment Cell (Figure 11, Appendix A). TPEC personnel collected one heated headspace field screening sample from each test hole (50 screenings total). Of those samples, 12 were selected for laboratory analysis. Two field duplicate samples were collected for laboratory analysis. Sample S26 is a field duplicate of sample S5. N26 is a field duplicate of sample N19.

Table 38 below shows the sample results for DRO, RRO, and GRO analysis. Samples above the MTG cleanup level are in **bold**.

Table 38: DRO, RRO, & GRO Results for Bioremediation Treatment Cell

| Sample ID | Approximate Depth (in) | DRO | RRO | GRO |
|-----------|------------------------|--------------|-------------|-----------|
| | | 230 mg/KG | 9,700 mg/Kg | 260 mg/Kg |
| S1 | 18 | 60.2 | 216 | 3.91 U |
| S5 | 18 | 89.3 | 225 | 2.17 U |
| S8 | 18 | 41.6 | 159 | 2.65 U |
| S9 | 18 | 320 | 205 | 2.61 U |
| S10 | 18 | 218 | 651 | 2.00 U |
| S11 | 18 | 25 | 110 U | 2.42 U |
| S26 | 18 | 55.4 | 214 | 3.10 U |
| N3 | 18 | 562 | 1420 | 2.26 U |
| N7 | 18 | 590 | 113 U | 2.50 U |
| N18 | 18 | 1,830 | 2130 | 2.08 U |
| N19 | 18 | 733 | 1360 | 1.97 U |
| N20 | 18 | 120 | 764 | 2.16 U |
| N25 | 18 | 68.6 | 282 | 2.15 U |
| N26 | 18 | 836 | 1560 | 1.80U |

U indicates the analyte was analyzed for but not detected.

In laboratory analysis, only DRO had detected concentrations above MTG cleanup levels. DRO ranged from 25mg/Kg in sample S11 to 1,830mg/Kg in sample N18. DRO exceeded MTG cleanup levels in samples S9, N3, N7, N18, and N19. Laboratory analysis detected concentrations for RRO, but concentrations were below MTG cleanup levels. GRO was not detected in samples collected for laboratory analysis.

Table 39 below shows the sample results for VOC analysis collected from the southern half of the Bioremediation Treatment Cell. Samples with analysis LOQs above the MTG cleanup level are *italicized*.

Table 39: VOC Results for Southern Half of Bioremediation Cell

| Analyte | Cleanup Level | S1 | S5 | S8 | S9 | S10 | S11 | S26* |
|-----------------------------|---------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | mg/Kg | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 0.022 | 0.0313U | 0.0173U | 0.0212U | 0.0209U | 0.016U | 0.0194U | 0.0248U |
| 1,1,1-Trichloroethane | 32 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| 1,1,2,2-Tetrachloroethane | 0.003 | 0.00313U | 0.00173U | 0.00212U | 0.00209U | 0.0016U | 0.00194U | 0.00248U |
| 1,1,2-Trichloroethane | 0.0014 | 0.00125U | 0.000693U | 0.000848U | 0.000835U | 0.000639U | 0.000775U | 0.000991U |
| 1,1-Dichloroethane | 0.092 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| 1,1-Dichloroethene | 1.2 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| 1,1-Dichloropropene | N/A | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| 1,2,3-Trichlorobenzene | 0.15 | 0.0782U | 0.0433U | 0.053U | 0.0522U | 0.0399U | 0.0484U | 0.062U |
| 1,2,3-Trichloropropane | 0.000031 | 0.00313U | 0.00173U | 0.00212U | 0.00209U | 0.0016U | 0.00194U | 0.00248U |
| 1,2,4-Trichlorobenzene | 0.082 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| 1,2,4-Trimethylbenzene | 0.61 | 0.0782U | 0.0433U | 0.053U | 0.0522U | 0.0399U | 0.0484U | 0.062U |
| 1,2-Dibromo-3-chloropropane | N/A | 0.156U | 0.0867U | 0.106U | 0.104U | 0.0799U | 0.0969U | 0.124U |
| 1,2-Dibromoethane | 0.00024 | 0.00156U | 0.000867U | 0.00106U | 0.00104U | 0.000799U | 0.000969U | 0.00124U |
| 1,2-Dichlorobenzene | 2.4 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| 1,2-Dichloroethane | 0.0055 | 0.00313U | 0.00173U | 0.00212U | 0.00209U | 0.0016U | 0.00194U | 0.00248U |
| 1,2-Dichloropropane | 0.03 | 0.0156U | 0.00867U | 0.0106U | 0.0104U | 0.00799U | 0.00969U | 0.0124U |
| 1,3,5-Trimethylbenzene | 0.66 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| 1,3-Dichlorobenzene | 2.3 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| 1,3-Dichloropropane | N/A | 0.0156U | 0.00867U | 0.0106U | 0.0104U | 0.00799U | 0.00969U | 0.0124U |
| 1,4-Dichlorobenzene | 0.037 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| 2,2-Dichloropropane | N/A | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| 2-Butanone (MEK) | 15 | 0.391U | 0.217U | 0.265U | 0.261U | 0.2U | 0.242U | 0.31U |
| 2-Chlorotoluene | N/A | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| 2-Hexanone | 0.11 | 0.156U | 0.0867U | 0.106U | 0.104U | 0.0799U | 0.0969U | 0.124U |
| 4-Chlorotoluene | N/A | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| 4-Isopropyltoluene | N/A | 0.156U | 0.0867U | 0.106U | 0.104U | 0.0799U | 0.0969U | 0.124U |
| 4-Methyl-2-pentanone (MIBK) | 18 | 0.391U | 0.217U | 0.265U | 0.261U | 0.2U | 0.242U | 0.31U |
| Acetone | 38 | 0.391U | 0.217U | 0.265U | 0.261U | 0.2U | 0.242U | 0.31U |
| Benzene | 0.022 | 0.0196U | 0.0108U | 0.0132U | 0.013U | 0.0122 | 0.0121U | 0.0155U |
| Bromobenzene | 0.36 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| Bromochloromethane | N/A | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| Bromodichloromethane | 0.0043 | 0.00313U | 0.00173U | 0.00212U | 0.00209U | 0.0016U | 0.00194U | 0.00248U |
| Bromoform | 0.1 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |

| | | | | | | | | |
|-------------------------------|--------|-----------------|-----------------|------------------|------------------|-----------------|-----------------|------------------|
| Bromomethane | 0.024 | <i>0.0313U</i> | 0.0173U | 0.0212U | 0.0209U | 0.016U | 0.0194U | <i>0.0248U</i> |
| Carbon disulfide | 2.9 | 0.156U | 0.0867U | 0.106U | 0.104U | 0.0799U | 0.0969U | 0.124U |
| Carbon tetrachloride | 0.021 | 0.0196U | 0.0108U | 0.0132U | 0.013U | 0.00998U | 0.0121U | 0.0155U |
| Chlorobenzene | 0.46 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| Chloroethane | 72 | 0.313U | 0.173U | 0.212U | 0.209U | 0.16U | 0.194U | 0.248U |
| Chloroform | 0.0071 | 0.00626U | 0.00347U | 0.00424U | 0.00417U | 0.00319U | 0.00387U | 0.00496U |
| Chloromethane | 0.61 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| Dibromochloromethane | 0.0027 | <i>0.00782U</i> | <i>0.00433U</i> | <i>0.0053U</i> | <i>0.00522U</i> | <i>0.00399U</i> | <i>0.00484U</i> | <i>0.0062U</i> |
| Dibromomethane | 0.025 | <i>0.0391U</i> | 0.0217U | <i>0.0265U</i> | <i>0.0261U</i> | 0.02U | 0.0242U | <i>0.031U</i> |
| Dichlorodifluoromethane | 3.9 | 0.0782U | 0.0433U | 0.053U | 0.0522U | 0.0399U | 0.0484U | 0.062U |
| Ethylbenzene | 0.13 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| Freon-113 | 310 | 0.156U | 0.0867U | 0.106U | 0.104U | 0.0799U | 0.0969U | 0.124U |
| Hexachlorobutadiene | 0.02 | <i>0.0313U</i> | 0.0173U | <i>0.0212U</i> | <i>0.0209U</i> | 0.016U | 0.0194U | <i>0.0248U</i> |
| Isopropylbenzene (Cumene) | 5.6 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| Methyl-t-butyl ether | 0.33 | 0.156U | 0.0867U | 0.106U | 0.104U | 0.0799U | 0.0969U | 0.124U |
| Methylene chloride | 0.4 | 0.156U | 0.0867U | 0.106U | 0.104U | 0.0799U | 0.0969U | 0.124U |
| Naphthalene | 0.038 | <i>0.0391U</i> | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| P & M -Xylene | N/A | 0.0782U | 0.0433U | 0.053U | 0.0522U | 0.0399U | 0.0484U | 0.062U |
| Styrene | 10 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| Tetrachloroethene | 0.19 | 0.0196U | 0.0108U | 0.0132U | 0.013U | 0.00998U | 0.0121U | 0.0155U |
| Toluene | 6.7 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0404 | 0.031U |
| Trichloroethene | 0.011 | 0.00782U | 0.00433U | 0.0053U | 0.00522U | 0.00399U | 0.00484U | 0.0062U |
| Trichlorofluoromethane | 41 | 0.0782U | 0.0433U | 0.053U | 0.0522U | 0.0399U | 0.0484U | 0.062U |
| Vinyl acetate | 1.1 | 0.156U | 0.0867U | 0.106U | 0.104U | 0.0799U | 0.0969U | 0.124U |
| Vinyl chloride | 0.0008 | <i>0.00125U</i> | 0.000693U | <i>0.000848U</i> | <i>0.000835U</i> | 0.000639U | 0.000775U | <i>0.000991U</i> |
| Xylenes (total) | 1.5 | 0.117U | 0.065U | 0.0795U | 0.0783U | 0.0599U | 0.0726U | 0.0929U |
| cis-1,2-Dichloroethene | 0.12 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| cis-1,3-Dichloropropene | 0.018 | <i>0.0196U</i> | 0.0108U | 0.0132U | 0.013U | 0.00998U | 0.0121U | 0.0155U |
| n-Butylbenzene | 23 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| n-Propylbenzene | 9.1 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| o-Xylene | N/A | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| sec-Butylbenzene | 42 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| tert-Butylbenzene | 11 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| trans-1,2-Dichloroethene | 1.3 | 0.0391U | 0.0217U | 0.0265U | 0.0261U | 0.02U | 0.0242U | 0.031U |
| trans-1,3- Dichloropropene | 0.018 | <i>0.0196U</i> | 0.0108U | 0.0132U | 0.013U | 0.00998U | 0.0121U | 0.0155U |

U indicates the analyte was analyzed for but not detected.

* indicates the sample is a duplicate of S5.

Laboratory analysis for samples collected from the southern half of the Bioremediation Treatment Cell did not detect any VOC analytes. Several VOC analytes were not detected but had analytical LOQs above the MTG cleanup levels. These VOC analytes are italicized in Table 39.

VOC results from the northern half of the Bioremediation Treatment Cell are shown in Table 40. Samples above the MTG cleanup level are in **bold** and samples with analysis LOQs above the MTG cleanup level are *italicized*.

Table 40: VOC Results for Northern Half of Bioremediation Treatment Cell

| Analyte | Cleanup Level | N3 | N7 | N18 | N19 | N20 | N25 | N26* |
|-----------------------------|---------------|------------------|------------------|------------------|------------------|------------------|-----------------|------------------|
| | mg/Kg | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 0.022 | 0.0181U | 0.02U | 0.0166U | 0.0158U | 0.0173U | 0.0172U | 0.0144U |
| 1,1,1-Trichloroethane | 32 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| 1,1,2,2-Tetrachloroethane | 0.003 | 0.00181U | 0.002U | 0.00166U | 0.00158U | 0.00173U | 0.00172U | 0.00144U |
| 1,1,2-Trichloroethane | 0.0014 | 0.000724U | 0.000799U | 0.000666U | 0.00063U | 0.000691U | 0.000688U | 0.000575U |
| 1,1-Dichloroethane | 0.092 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| 1,1-Dichloroethene | 1.2 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| 1,1-Dichloropropene | N/A | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| 1,2,3-Trichlorobenzene | 0.15 | 0.0452U | 0.0499U | 0.0416U | 0.0394U | 0.0432U | 0.043U | 0.0359U |
| 1,2,3-Trichloropropane | 0.000031 | <i>0.00181U</i> | <i>0.002U</i> | <i>0.00166U</i> | <i>0.00158U</i> | <i>0.00173U</i> | <i>0.00172U</i> | <i>0.00144U</i> |
| 1,2,4-Trichlorobenzene | 0.082 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| 1,2,4-Trimethylbenzene | 0.61 | 0.0452U | 0.0499U | 0.0416U | 0.0394U | 0.0432U | 0.043U | 0.0359U |
| 1,2-Dibromo-3-chloropropane | N/A | 0.0905U | 0.0999U | 0.0832U | 0.0788U | 0.0863U | 0.086U | 0.0719U |
| 1,2-Dibromoethane | 0.00024 | <i>0.000905U</i> | <i>0.000999U</i> | <i>0.000832U</i> | <i>0.000788U</i> | <i>0.000863U</i> | <i>0.00086U</i> | <i>0.000719U</i> |
| 1,2-Dichlorobenzene | 2.4 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| 1,2-Dichloroethane | 0.0055 | 0.00181U | 0.002U | 0.00166U | 0.00158U | 0.00173U | 0.00172U | 0.00144U |
| 1,2-Dichloropropane | 0.03 | 0.00905U | 0.00999U | 0.00832U | 0.00788U | 0.00863U | 0.0086U | 0.00719U |
| 1,3,5-Trimethylbenzene | 0.66 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| 1,3-Dichlorobenzene | 2.3 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| 1,3-Dichloropropane | N/A | 0.00905U | 0.00999U | 0.00832U | 0.00788U | 0.00863U | 0.0086U | 0.00719U |
| 1,4-Dichlorobenzene | 0.037 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| 2,2-Dichloropropane | N/A | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| 2-Butanone (MEK) | 15 | 0.226U | 0.25U | 0.208U | 0.197U | 0.216U | 0.215U | 0.18U |
| 2-Chlorotoluene | N/A | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| 2-Hexanone | 0.11 | 0.0905U | 0.0999U | 0.0832U | 0.0788U | 0.0863U | 0.086U | 0.0719U |
| 4-Chlorotoluene | N/A | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| 4-Isopropyltoluene | N/A | 0.0905U | 0.0999U | 0.0832U | 0.0788U | 0.0863U | 0.086U | 0.0719U |
| 4-Methyl-2-pentanone (MIBK) | 18 | 0.226U | 0.25U | 0.208U | 0.197U | 0.216U | 0.215U | 0.18U |
| Acetone | 38 | 0.226U | 0.25U | 0.208U | 0.197U | 0.216U | 0.215U | 0.18U |
| Benzene | 0.022 | 0.0113U | 0.0125U | 0.0104U | 0.00985U | 0.0108U | 0.0108U | 0.00899U |
| Bromobenzene | 0.36 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| Bromochloromethane | N/A | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |

| | | | | | | | | |
|------------------------------|--------|-----------|---------------|-----------|----------|-----------|-----------|-----------|
| Bromodichloromethane | 0.0043 | 0.00181U | 0.002U | 0.00166U | 0.00158U | 0.00173U | 0.00172U | 0.00144U |
| Bromoform | 0.1 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| Bromomethane | 0.024 | 0.0181U | 0.02U | 0.0166U | 0.0158U | 0.0173U | 0.0172U | 0.0144U |
| Carbon disulfide | 2.9 | 0.0905U | 0.0999U | 0.0832U | 0.0788U | 0.0863U | 0.086U | 0.0719U |
| Carbon tetrachloride | 0.021 | 0.0113U | 0.0125U | 0.0104U | 0.00985U | 0.0108U | 0.0108U | 0.00899U |
| Chlorobenzene | 0.46 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| Chloroethane | 72 | 0.181U | 0.2U | 0.166U | 0.158U | 0.173U | 0.172U | 0.144U |
| Chloroform | 0.0071 | 0.00362U | 0.004U | 0.00333U | 0.00315U | 0.00345U | 0.00344U | 0.00288U |
| Chloromethane | 0.61 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| Dibromochloromethane | 0.0027 | 0.00452U | 0.00499U | 0.00416U | 0.00394U | 0.00432U | 0.0043U | 0.00359U |
| Dibromomethane | 0.025 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| Dichlorodifluoromethane | 3.9 | 0.0452U | 0.0499U | 0.0416U | 0.0394U | 0.0432U | 0.043U | 0.0359U |
| Ethylbenzene | 0.13 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| Freon-113 | 310 | 0.0905U | 0.0999U | 0.0832U | 0.0788U | 0.0863U | 0.086U | 0.0719U |
| Hexachlorobutadiene | 0.02 | 0.0181U | 0.02U | 0.0166U | 0.0158U | 0.0173U | 0.0172U | 0.0144U |
| Isopropylbenzene (Cumene) | 5.6 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| Methyl-t-butyl ether | 0.33 | 0.0905U | 0.0999U | 0.0832U | 0.0788U | 0.0863U | 0.086U | 0.0719U |
| Methylene chloride | 0.4 | 0.0905U | 0.0999U | 0.0832U | 0.0788U | 0.0863U | 0.086U | 0.0719U |
| Naphthalene | 0.038 | 0.0226U | 0.0382 | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| P & M -Xylene | N/A | 0.0452U | 0.0499U | 0.0416U | 0.0394U | 0.0432U | 0.043U | 0.0359U |
| Styrene | 10 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| Tetrachloroethene | 0.19 | 0.0131 | 0.0125U | 0.0104U | 0.00985U | 0.0108U | 0.0108U | 0.00899U |
| Toluene | 6.7 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| Trichloroethene | 0.011 | 0.00452U | 0.00499U | 0.00416U | 0.00394U | 0.00432U | 0.0043U | 0.00359U |
| Trichlorofluoromethane | 41 | 0.0452U | 0.0499U | 0.0416U | 0.0394U | 0.0432U | 0.043U | 0.0359U |
| Vinyl acetate | 1.1 | 0.0905U | 0.0999U | 0.0832U | 0.0788U | 0.0863U | 0.086U | 0.0719U |
| Vinyl chloride | 0.0008 | 0.000724U | 0.000799U | 0.000666U | 0.00063U | 0.000691U | 0.000688U | 0.000575U |
| Xylenes (total) | 1.5 | 0.0678U | 0.0749U | 0.0624U | 0.0591U | 0.0648U | 0.0645U | 0.0539U |
| cis-1,2-Dichloroethene | 0.12 | 0.0416 | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| cis-1,3-Dichloropropene | 0.018 | 0.0113U | 0.0125U | 0.0104U | 0.00985U | 0.0108U | 0.0108U | 0.00899U |
| n-Butylbenzene | 23 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| n-Propylbenzene | 9.1 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| o-Xylene | N/A | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| sec-Butylbenzene | 42 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| tert-Butylbenzene | 11 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| trans-1,2-Dichloroethene | 1.3 | 0.0226U | 0.025U | 0.0208U | 0.0197U | 0.0216U | 0.0215U | 0.018U |
| trans-1,3-Dichloropropene | 0.018 | 0.0113U | 0.0125U | 0.0104U | 0.00985U | 0.0108U | 0.0108U | 0.00899U |

U indicates the analyte was analyzed for but not detected.
 * indicates the sample is a duplicate of N19.

Laboratory analysis detected three VOC analytes in analytical samples collected from the northern half of the Bioremediation Treatment Cell. The analytes naphthalene, tetrachloroethene, and cis-1,2-dichloroethene were detected; however, only naphthalene exceeded MTG cleanup levels. Naphthalene exceeded cleanup levels in sample N7 (0.0382mg/Kg). The remaining analytes that were detected were below MTG cleanup levels. Several VOC analytes were not detected but had analytical LOQs above the MTG cleanup levels. These VOC analytes are italicized in Table 40.

Table 41 below shows the sample results for PAH analysis collected from the southern half of the Bioremediation Treatment Cell.

Table 41: PAH Results for the Southern Half of Bioremediation Treatment Cell

| Analyte | Cleanup Level | S1 | S5 | S8 | S9 | S10 | S11 | S26 |
|-------------------------|---------------|---------|---------|---------|---------|---------|---------|---------|
| | mg/Kg | | | | | | | |
| 1-Methylnaphthalene | 0.41 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| 2-Methylnaphthalene | 1.3 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Acenaphthene | 37 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Acenaphthylene | 18 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Anthracene | 390 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Benzo(a)Anthracene | 0.7 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Benzo[a]pyrene | 1.2 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Benzo[b]Fluoranthene | 20 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Benzo[g,h,i]perylene | 1,900 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Benzo[k]fluoranthene | 120 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Chrysene | 600 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Dibenzo[a,h]anthracene | 1.2 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Fluoranthene | 590 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Fluorene | 36 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Indeno[1,2,3-c,d]pyrene | 12 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Naphthalene | 0.038 | 0.0285U | 0.0227U | 0.0233U | 0.022U | 0.0215U | 0.0218U | 0.0251U |
| Phenanthrene | 39 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |
| Pyrene | 87 | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U |

U indicates the analyte was analyzed for but not detected.

* indicates the sample is a duplicate of S5.

Laboratory analysis did not detect any PAH analytes for samples collected from the southern half of the bioremediation cell.

Table 42 below shows the sample results for PAH analysis collected from the northern half of the Bioremediation Treatment Cell. Samples with analysis LOQs above the MTG cleanup level are *italicized*.

Table 42: PAH Results for the Northern Half of Bioremediation Treatment Cell

| Analyte | Cleanup Level | N3 | N7 | N18 | N19 | N20 | N25 | N26 |
|-------------------------|---------------|--------|--------|--------|---------|---------|---------|---------|
| | mg/Kg | | | | | | | |
| 1-Methylnaphthalene | 0.41 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| 2-Methylnaphthalene | 1.3 | 0.138U | 0.141U | 0.136U | 0.0375 | 0.0274U | 0.027U | 0.0379 |
| Acenaphthene | 37 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Acenaphthylene | 18 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Anthracene | 390 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Benzo(a)Anthracene | 0.7 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Benzo[a]pyrene | 1.2 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Benzo[b]Fluoranthene | 20 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Benzo[g,h,i]perylene | 1,900 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Benzo[k]fluoranthene | 120 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Chrysene | 600 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Dibenzo[a,h]anthracene | 1.2 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Fluoranthene | 590 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Fluorene | 36 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Indeno[1,2,3-c,d]pyrene | 12 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Naphthalene | 0.038 | 0.111U | 0.113U | 0.108U | 0.0221U | 0.0219U | 0.0216U | 0.0216U |
| Phenanthrene | 39 | 0.138U | 0.141U | 0.136U | 0.0361 | 0.0274U | 0.027U | 0.0381 |
| Pyrene | 87 | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |

U indicates the analyte was analyzed for but not detected.

* indicates the sample is a duplicate of N19.

Laboratory analysis did not detect any PAH analytes for samples collected from the northern half of the Bioremediation Treatment Cell. The PAH analyte naphthalene was not detected in several of the samples and had analytical LOQs above the MTG cleanup levels.

Table 43 below shows the sample results for EDB analysis for samples collected from the southern half of the Bioremediation Treatment Cell.

Table 43: EDB Results for the Southern Half of Bioremediation Treatment Cell

| Analyte | Cleanup Level | S1 | S5 | S8 | S9 | S10 | S11 | S26* |
|-------------------|---------------|-----------|-----------|-----------|----------|------------|-----------|-----------|
| | mg/Kg | | | | | | | |
| 1,2-Dibromoethane | 0.00024 | 0.000196U | 0.000108U | 0.000132U | 0.00013U | 0.0000998U | 0.000121U | 0.000155U |

U indicates the analyte was analyzed for but not detected.

* indicates the sample is a duplicate of S5.

Laboratory analysis did not detect EDB in any of the samples collected from the southern half of the Bioremediation Treatment Cell.

Table 44 below shows the sample results for EDB analysis for samples collected from the northern half of the Bioremediation Treatment Cell.

Table 44: EDB Results for the Northern Half of Bioremediation Treatment Cell

| Analyte | Cleanup Level | N3 | N7 | N18 | N19 | N20 | N25 | N26* |
|-------------------|---------------|-----------|-----------|-----------|------------|-----------|-----------|------------|
| | mg/Kg | | | | | | | |
| 1,2-Dibromoethane | 0.00024 | 0.000113U | 0.000125U | 0.000104U | 0.0000985U | 0.000108U | 0.000108U | 0.0000899U |

U indicates the analyte was analyzed for but not detected.
 * indicates the sample is a duplicate of N19.

Laboratory analysis did not detect EDB in any of the samples within the southern half of the Bioremediation Treatment Cell.

Table 45 below shows the sample results for RCRA Metal analysis for samples collected from the southern half of the Bioremediation Treatment Cell. Samples above the MTG cleanup level are in **bold** and samples with analysis LOQs above the MTG cleanup level are *italicized*.

Table 45: RCRA Metal Results for the Southern Half of Bioremediation Treatment Cell

| Analyte | Cleanup Level | S1 | S5 | S8 | S9 | S10 | S11 | S26* |
|----------|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | mg/Kg | | | | | | | |
| Arsenic | 0.2 | 9.07 | 8.35 | 11.7 | 11.5 | 14.2 | 8.95 | 11.2 |
| Barium | 2100 | 23.1 | 19.8 | 27.7 | 24.9 | 37.1 | 22.8 | 24.1 |
| Cadmium | 9.1 | 0.281 U | 0.229 U | 0.232 U | 0.218 U | 0.301 | 0.216 U | 0.240 U |
| Chromium | 0.089 | 18.6 | 24.8 | 29.4 | 27.6 | 37 | 29.3 | 25.6 |
| Lead | N/A | 13.7 | 18.6 | 15.8 | 16.5 | 24.8 | 14.3 | 15.1 |
| Mercury | 0.36 | <i>0.422 U</i> | 0.344 U | 0.348 U | 0.327 U | 0.325 U | 0.323 U | 0.360 U |
| Selenium | 6.9 | 2.81 U | 2.29 U | 2.32 U | 2.18 U | 2.16 U | 2.16 U | 2.40 U |
| Silver | 11 | 0.703 U | 0.574 U | 0.579 U | 0.544 U | 0.541 U | 0.539 U | 0.600 U |

U indicates the analyte was analyzed for but not detected.
 * indicates the sample is a duplicate of S5.

Laboratory results found the RCRA Metals arsenic and chromium exceeded ADEC cleanup levels in each sample. Arsenic ranged from 8.35mg/Kg in sample S5 to 11.5mg/Kg in sample S9. These results were significantly greater than the ADEC cleanup level of 0.2mg/Kg. Chromium ranged from 18.6mg/Kg in sample S1 to 37mg/Kg in sample S10, which are significantly greater than the ADEC cleanup level of 0.089mg/Kg. Detectable concentrations of additional RCRA Metal analytes were observed, but all were below applicable ADEC cleanup levels.

Table 46 below shows the sample results for RCRA Metal analysis for samples collected from the northern half of the Bioremediation Treatment Cell. Samples above the MTG cleanup level are in **bold**.

Table 46: RCRA Metal Results for the Northern Half of Bioremediation Cell

| Analyte | Cleanup Level | N3 | N7 | N18 | N19 | N20 | N25 | N26* |
|----------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | mg/Kg | | | | | | | |
| Arsenic | 0.2 | 6.46 | 9.13 | 6.81 | 10.1 | 12.7 | 10.5 | 9.4 |
| Barium | 2100 | 17.9 | 23.2 | 19.4 | 30.6 | 30.7 | 30.1 | 32.7 |
| Cadmium | 9.1 | 0.348 | 0.502 | 0.392 | 0.436 | 0.29 | 0.238 | 0.473 |
| Chromium | 0.089 | 20.8 | 26.4 | 25.7 | 34.2 | 36.5 | 34 | 35.4 |
| Lead | N/A | 14.4 | 17.8 | 16.8 | 33.1 | 22 | 20 | 31.2 |
| Mercury | 0.36 | 0.539 | 0.357 | 0.316 U | 0.325 U | 0.318 U | 0.346 | 0.325 U |
| Selenium | 6.9 | 2.21 U | 2.15 U | 2.10 U | 2.17 U | 2.12 U | 2.16 U | 2.16 U |
| Silver | 11 | 0.554 U | 0.538 U | 0.526 U | 0.542 U | 0.530 U | 0.539 U | 0.541 U |

U indicates the analyte was analyzed for but not detected.

* indicates the sample is a duplicate of N19.

Laboratory results found the RCRA Metals arsenic, chromium and mercury exceeded ADEC cleanup levels. Arsenic ranged from 6.46mg/Kg in sample N3 to 12.7mg/Kg in sample N20. These results were significantly greater than the ADEC cleanup level of 0.2mg/Kg. Chromium ranged from 20.8mg/Kg in sample N3 to 36.5mg/Kg in sample N20, which are significantly greater than the ADEC cleanup level of 0.089mg/Kg. Mercury exceeded ADEC cleanup levels in sample N3 (0.539mg/Kg). This result was slightly higher than the ADEC cleanup level of 0.36mg/Kg. Detectable concentrations of additional RCRA Metal analytes were observed, but all were below applicable ADEC cleanup levels.

Table 47 below shows the sample results for PCB analysis for samples collected from the southern half of the Bioremediation Treatment Cell.

Table 47: PCB Results for Southern Half of Bioremediation Treatment Cell

| Analyte | Cleanup Level | S1 | S5 | S8 | S9 | S10 | S11 | S26* |
|--------------|---------------|---------|---------|---------|---------|---------|---------|---------|
| | mg/Kg | | | | | | | |
| Aroclor 1016 | 1.0 | 0.0709U | 0.0575U | 0.0573U | 0.0547U | 0.0538U | 0.0544U | 0.0622U |
| Aroclor 1221 | 1.0 | 0.142U | 0.115U | 0.115U | 0.109U | 0.108U | 0.109U | 0.124U |
| Aroclor 1232 | 1.0 | 0.0709U | 0.0575U | 0.0573U | 0.0547U | 0.0538U | 0.0544U | 0.0622U |
| Aroclor 1242 | 1.0 | 0.0709U | 0.0575U | 0.0573U | 0.0547U | 0.0538U | 0.0544U | 0.0622U |
| Aroclor 1248 | 1.0 | 0.0709U | 0.0575U | 0.0573U | 0.0547U | 0.0538U | 0.0544U | 0.0622U |
| Aroclor 1254 | 1.0 | 0.0709U | 0.0575U | 0.0573U | 0.0547U | 0.0538U | 0.0544U | 0.0622U |
| Aroclor 1260 | 1.0 | 0.0709U | 0.0575U | 0.0573U | 0.0547U | 0.0538U | 0.0544U | 0.0622U |

U indicates the analyte was analyzed for but not detected.

* indicates the sample is a duplicate of S5.

Laboratory analysis did not detect PCB in any of the samples within the southern half of the Bioremediation Treatment Cell.

Table 48 below shows the sample results for PCB analysis for samples collected from the northern half of the Bioremediation Treatment Cell.

Table 48: PCB Results for Northern Half of Bioremediation Treatment Cell

| Analyte | Cleanup Level | N3 | N7 | N18 | N19 | N20 | N25 | N26* |
|--------------|---------------|---------|---------|---------|---------|---------|---------|---------|
| | mg/Kg | | | | | | | |
| Aroclor 1016 | 1.0 | 0.0547U | 0.0559U | 0.0534U | 0.0551U | 0.0551U | 0.0541U | 0.0548U |
| Aroclor 1221 | 1.0 | 0.109U | 0.112U | 0.107U | 0.110U | 0.110U | 0.108U | 0.110U |
| Aroclor 1232 | 1.0 | 0.0547U | 0.0559U | 0.0534U | 0.0551U | 0.0551U | 0.0541U | 0.0548U |
| Aroclor 1242 | 1.0 | 0.0547U | 0.0559U | 0.0534U | 0.0551U | 0.0551U | 0.0541U | 0.0548U |
| Aroclor 1248 | 1.0 | 0.0547U | 0.0559U | 0.0534U | 0.0551U | 0.0551U | 0.0541U | 0.0548U |
| Aroclor 1254 | 1.0 | 0.0547U | 0.0559U | 0.0534U | 0.0551U | 0.0551U | 0.0541U | 0.0548U |
| Aroclor 1260 | 1.0 | 0.0547U | 0.0559U | 0.0534U | 0.0551U | 0.0551U | 0.0541U | 0.0548U |

U indicates the analyte was analyzed for but not detected.

* indicates the sample is a duplicate of N19.

Laboratory analysis did not detect PCB in any of the samples within the northern half of the Bioremediation Treatment Cell.

6.1.2.1 Discussion of Bioremediation Treatment Cell

TPEC collected seven analytical samples from the southern half of the Bioremediation Treatment Cell. Laboratory results show that DRO concentrations were detected; however, only one sample (S9) exceeded MTG cleanup levels. RRO concentrations were detected but were far below the MTG cleanup levels. GRO was not detected in any sample. The laboratory results indicated that soils in the southern half of the Bioremediation Treatment Cell are almost remediated to ADEC standards.

TPEC also collected seven analytical samples from the northern half of the Bioremediation Treatment Cell. Laboratory results show that DRO concentrations were detected above MTG cleanup levels in five of the samples collected. Samples that exceeded MTG cleanup levels ranged from 562mg/Kg to 1,830mg/Kg. Like the southern half of the cell, RRO and GRO concentrations were well below MTG cleanup levels.

The BTEX analytes toluene, ethylbenzene, and xylenes were all below the MTG cleanup levels. Only VOC analyte, naphthalene, was detected above MTG cleanup levels. Naphthalene was detected at sample N7 and slightly exceeded the cleanup level by 0.0002mg/Kg.

All laboratory samples collected from the treatment cell were analyzed for RCRA Metals. Arsenic and chromium exceeded MTG cleanup levels in every sample. TPEC believes these exceedances are due to natural background concentrations, see explanation in Section 6.1.1.1.1. Three samples collected from the northern half of the treatment cell had detected concentrations of mercury with one sample, N3, exceeding MTG cleanup levels.

The laboratory analysis of soil samples collected from the Bioremediation Treatment Cell are similar to the findings in the 2009 Cleanup Report. As expected, DRO concentration are significantly lower; however, detected concentrations above MTG cleanup levels remain at the site.

6.2 Groundwater

6.2.1 Outlier Sites

During the site characterization, TPEC observed groundwater with a layer sheen at one outlier site (6.5 Mile Rock Pit Debris Area). TPEC collected one sample and one field duplicate sample for laboratory analysis. Sample TH27W2 is a field duplicate of sample TH27W1.

Table 49 below shows the sample results for DRO, RRO, and GRO analysis. Samples above the MTG cleanup level are in **bold**.

Table 49: DRO, RRO, & GRO Results for Groundwater at 6.5 Mile Rock Pit Debris Area

| Sample ID | DRO | RRO | GRO |
|-----------|-------|------------|------------|
| | | 1,500 µg/L | 1,100 µg/L |
| TH27W1 | 577 U | 481 U | 100 U |
| TH27W2* | 577 U | 481 U | 100 U |

U indicates the analyte was analyzed for but not detected.
* indicates the sample is a duplicate of TH27W1.

In laboratory analysis, DRO, RRO, and GRO concentrations were not detected and below MTG cleanup levels. Table 50 below shows the analytical results for VOC analysis. Samples with analysis LOQs above the MTG cleanup level are *italicized*.

Table 50: VOC Results for Groundwater at 6.5 Mile Rock Pit Debris Area

| Analyte | Cleanup Level | TH27W1 | TH27W2* |
|-----------------------------|---------------|----------|----------|
| | µg/L | | |
| 1,1,1,2-Tetrachloroethane | 5.7 | 0.500 U | 0.500 U |
| 1,1,1-Trichloroethane | 8000 | 1.00 U | 1.00 U |
| 1,1,2,2-Tetrachloroethane | 0.76 | 0.500 U | 0.500 U |
| 1,1,2-Trichloroethane | 0.41 | 0.400 U | 0.400 U |
| 1,1-Dichloroethane | 28 | 1.00 U | 1.00 U |
| 1,1-Dichloroethene | N/A | 1.00 U | 1.00 U |
| 1,1-Dichloropropene | N/A | 1.00 U | 1.00 U |
| 1,2,3-Trichlorobenzene | 7 | 1.00 U | 1.00 U |
| 1,2,3-Trichloropropane | 0.0075 | 1.00 U | 1.00 U |
| 1,2,4-Trichlorobenzene | 4 | 1.00 U | 1.00 U |
| 1,2,4-Trimethylbenzene | 56 | 1.00 U | 1.00 U |
| 1,2-Dibromo-3-chloropropane | N/A | 10.0 U | 10.0 U |
| 1,2-Dibromoethane | 0.075 | 0.0750 U | 0.0750 U |
| 1,2-Dichlorobenzene | 300 | 1.00 U | 1.00 U |
| 1,2-Dichloroethane | 1.7 | 0.500 U | 0.500 U |
| 1,2-Dichloropropane | 8.2 | 1.00 U | 1.00 U |
| 1,3,5-Trimethylbenzene | 60 | 1.00 U | 1.00 U |
| 1,3-Dichlorobenzene | 300 | 1.00 U | 1.00 U |
| 1,3-Dichloropropane | 4.7 | 0.500 U | 0.500 U |
| 1,4-Dichlorobenzene | 4.8 | 0.500 U | 0.500 U |
| 2,2-Dichloropropane | N/A | 1.00 U | 1.00 U |
| 2-Butanone (MEK) | 5600 | 10.0 U | 10.0 U |
| 2-Chlorotoluene | N/A | 1.00 U | 1.00 U |
| 2-Hexanone | 38 | 10.0 U | 10.0 U |
| 4-Chlorotoluene | N/A | 1.00 U | 1.00 U |
| 4-Isopropyltoluene | N/A | 1.00 U | 1.00 U |
| 4-Methyl-2-pentanone (MIBK) | 6300 | 10.0 U | 10.0 U |
| Benzene | 4.6 | 0.400 U | 0.400 U |
| Bromobenzene | 62 | 1.00 U | 1.00 U |
| Bromochloromethane | N/A | 1.00 U | 1.00 U |
| Bromodichloromethane | 1.3 | 0.500 U | 0.500 U |
| Bromoform | 33 | 1.00 U | 1.00 U |
| Bromomethane | 7.5 | 5.00 U | 5.00 U |
| Carbon disulfide | 810 | 10.0 U | 10.0 U |

| | | | |
|---------------------------|------|---------|---------|
| Carbon tetrachloride | 4.6 | 1.00 U | 1.00 U |
| Chlorobenzene | 78 | 0.500 U | 0.500 U |
| Chloroethane | N/A | 1.00 U | 1.00 U |
| Chloroform | 2.2 | 1.00 U | 1.00 U |
| Chloromethane | 190 | 1.00 U | 1.00 U |
| Dibromochloromethane | 8.7 | 0.500 U | 0.500 U |
| Dibromomethane | 8.3 | 1.00 U | 1.00 U |
| Dichlorodifluoromethane | 200 | 1.00 U | 1.00 U |
| Ethylbenzene | 15 | 1.00 U | 1.00 U |
| Freon-113 | N/A | 10.0 U | 10.0 U |
| Hexachlorobutadiene | 1.4 | 1.00 U | 1.00 U |
| Isopropylbenzene (Cumene) | 450 | 1.00 U | 1.00 U |
| Methyl-t-butyl ether | 140 | 10.0 U | 10.0 U |
| Methylene chloride | 110 | 10.0 U | 10.0 U |
| Naphthalene | 1.7 | 1.00 U | 1.00 U |
| P & M -Xylene | N/A | 2.00 U | 2.00 U |
| Styrene | 1200 | 1.00 U | 1.00 U |
| Tetrachloroethene | 5.7 | 1.00 U | 1.00 U |
| Toluene | 1100 | 1.00 U | 1.00 U |
| Trichloroethene | 8000 | 1.00 U | 1.00 U |
| Trichlorofluoromethane | 5200 | 1.00 U | 1.00 U |
| Vinyl acetate | 410 | 10.0 U | 10.0 U |
| Vinyl chloride | 0.19 | 0.150 U | 0.150 U |
| Xylenes (total) | 190 | 3.00 U | 3.00 U |
| cis-1,2-Dichloroethene | N/A | 1.00 U | 1.00 U |
| cis-1,3-Dichloropropene | N/A | 0.500 U | 0.500 U |
| n-Butylbenzene | 1000 | 1.00 U | 1.00 U |
| n-Propylbenzene | 660 | 1.00 U | 1.00 U |
| o-Xylene | N/A | 1.00 U | 1.00 U |
| sec-Butylbenzene | 2000 | 1.00 U | 1.00 U |
| tert-Butylbenzene | 690 | 1.00 U | 1.00 U |
| trans-1,2-Dichloroethene | N/A | 1.00 U | 1.00 U |
| trans-1,3-Dichloropropene | N/A | 1.00 U | 1.00 U |

U indicates the analyte was analyzed for but not detected.

* indicates the sample is a duplicate of TH27W1.

Laboratory analysis did not detect any VOC analytes. Several VOC analytes were not detected but had analytical LOQs above the MTG cleanup levels. Table 51 below shows sample results for PAH analysis.

Table 51: PAH Results for Groundwater at 6.5 Mile Rock Pit Debris Area

| Analyte | Cleanup Level | TH27W1 | TH27W2* |
|--------------------------|---------------|----------|----------|
| | µg/L | | |
| 1-Methylnaphthalene | 11 | 0.0490 U | 0.0481 U |
| 2-Methylnaphthalene | 36 | 0.0490 U | 0.0481 U |
| Acenaphthene | 530 | 0.0490 U | 0.0481 U |
| Acenaphthylene | 260 | 0.0490 U | 0.0481 U |
| Anthracene | 43 | 0.0490 U | 0.0481 U |
| Benzo(a)Anthracene | 0.3 | 0.0490 U | 0.0481 U |
| Benzo[a]pyrene | 0.25 | 0.0196 U | 0.0192 U |
| Benzo[b]Fluoranthene | 2.5 | 0.0490 U | 0.0481 U |
| Benzo[g,h,i]perylene | 0.26 | 0.0490 U | 0.0481 U |
| Benzo[k]fluoranthene | 0.8 | 0.0490 U | 0.0481 U |
| Chrysene | 2 | 0.0490 U | 0.0481 U |
| Dibenzo[a,h]anthracene | 0.25 | 0.0196 U | 0.0192 U |
| Fluoranthene | 260 | 0.0490 U | 0.0481 U |
| Fluorene | 290 | 0.0490 U | 0.0481 U |
| Indeno[1,2,3-c,d] pyrene | 0.19 | 0.0490 U | 0.0481 U |
| Naphthalene | 1.7 | 0.0980 U | 0.0962 U |
| Phenanthrene | 170 | 0.0490 U | 0.0481 U |
| Pyrene | 120 | 0.0490 U | 0.0481 U |

U indicates the analyte was analyzed for but not detected.
 * indicates the sample is a duplicate of TH27W1.

Laboratory analysis did not detect any PAH analytes within groundwater at the 6.5 Mile Rock Pit Debris Area. Table 42 below shows the results for EDB analysis.

Table 52: EDB Results for Groundwater at 6.5 Mile Rock Pit Debris Area

| Analyte | Cleanup Level | TH27W1 | TH27W2* |
|-------------------|---------------|-----------|-----------|
| | µg/L | | |
| 1,2-Dibromoethane | 0.075 | 0.00500 U | 0.00500 U |

U indicates the analyte was analyzed for but not detected.
 * indicates the sample is a duplicate of TH27W1.

Laboratory analysis did not detect any PAH analytes within groundwater at the 6.5 Mile Rock Pit Debris Area. Table 53 below shows sample results for RCRA Metals analysis. Samples with analysis LOQs above the MTG cleanup level are *italicized*.

Table 53: RCRA Metal Results for Groundwater at 6.5 Mile Rock Pit Debris Area

| Analyte | Cleanup Level | TH27W1 | TH27W2* |
|----------|---------------|---------------|---------------|
| | µg/L | | |
| Arsenic | 0.52 | <i>10.0 U</i> | <i>10.0 U</i> |
| Barium | 3,800 | 11 | 11.5 |
| Cadmium | 9.2 | 2.00 U | 2.00 U |
| Chromium | 0.35 | <i>10.0 U</i> | <i>10.0 U</i> |
| Lead | 15 | 3.97 | 4.12 |
| Mercury | 0.52 | 0.500 U | 0.500 U |
| Selenium | 100 | 20.0 U | 20.0 U |
| Silver | 94 | 2.00 U | 2.00 U |

U indicates the analyte was analyzed for but not detected.
 * indicates the sample is a duplicate of TH27W1.

Laboratory analysis did not detect any RCRA Metal analytes within groundwater at the 6.5 Mile Rock Pit Debris Area. Several RCRA Metal analytes were not detected but had LOQs above the MTG cleanup levels. Table 54 below shows sample results for RCRA Metals analysis. Samples with analysis detection limits above the MTG cleanup level are *italicized*.

Table 54: PCB Results for Groundwater at 6.5 Mile Rock Pit Debris

| Analyte | Cleanup Level | TH27W1 | TH27W2* |
|--------------|---------------|---------------|---------------|
| | µg/L | | |
| Aroclor 1016 | 0.44 | 0.105 U | 0.103 U |
| Aroclor 1221 | 0.44 | <i>1.05 U</i> | <i>1.03 U</i> |
| Aroclor 1232 | 0.44 | 0.105 U | 0.103 U |
| Aroclor 1242 | 0.44 | 0.105 U | 0.103 U |
| Aroclor 1248 | 0.44 | 0.105 U | 0.103 U |
| Aroclor 1254 | 0.44 | 0.105 U | 0.103 U |
| Aroclor 1260 | 0.44 | 0.105 U | 0.103 U |

U indicates the analyte was analyzed for but not detected.
 * indicates the sample is a duplicate of TH27W1.

Laboratory analysis did not detect any PCB analytes. Aroclor 1221 was not detected but had analytical detection limit above the MTG cleanup levels.

7.0 CONCEPTUAL SITE MODEL

TPEC prepared a preliminary Conceptual Site Model (CSM) for the areas that will be investigated at the BTI Danger Bay Logging Camp. The CSM graphic and scoping forms have been completed and are attached in Appendix C. Due to the isolated location, human exposure at the site is limited to future industrial work, recreational users, and trespassers. Preliminary exposure pathways include the ingestion and dermal absorption of contaminants from soil, ingestion, and dermal absorption of contaminants from

groundwater, inhalation of volatile compounds in tap water, and inhalation of outdoor and indoor air. According to the CSM, soil, groundwater, and air exposure medias pose the most significant concern.

8.0 INVESTIGATION DERIVED WASTE

Decontamination waste (i.e., shop towels), disposable PPE, disposable sampling equipment, and all other investigative derived solid waste was placed in contractor trash bags. Solid wastes (except for soils) were disposed in a permitted landfill by Afognak personnel.

An estimated maximum of 0.25-gallon of development and purge water was collected as part of the sampling process. This water was collected in clean quart size container and kept on site. Analytical results indicate that purge water is not contaminated; therefore, Afognak does not need to treat containerized water prior to release.

9.0 DEVIATIONS FROM WORK PLAN

TPEC planned to collect two characterization samples for laboratory analysis from each soil test hole that exhibited signs of contamination. While on site, TPEC collected one analytical sample from test holes that had surface staining present but whose PID screening results were less than 10ppm. TPEC observed this scenario at test holes TH9, TH14, and TH23. Additionally, TPEC collected one analytical sample at test holes where field screenings only had a single sample exceed 10ppm. This was observed at test hole TH16. TPEC made this decision to conserve sampling containers because it was unknown how many samples would be required prior to mobilizing to the subject property.

After purging the well, TPEC intended to collect groundwater samples using a bladder pump outfitted with a new polyethylene tube. While using the bladder pump, TPEC could lower the rate at which water was displaced from the pump. This made collecting VOC analysis nearly impossible. VOC analysis requires a precise volume of water without overfilling the vial. The bladder pump displaced water in spurts that could not be controlled. In addition, the rate at which groundwater was displaced from the $\frac{3}{4}$ -inch monitoring well was exceptionally slow. To collect all the required analyses, TPEC was required to collect approximately 1-gallon of groundwater per sample. TPEC was expected to collect a duplicate sample which meant approximately 2-gallons of groundwater was necessary. TPEC had limited time and could not wait for the bladder pump to displace two gallons of groundwater.

No other deviations from the approved work plan occurred.

10.0 QUALITY CONTROL

All soil and water samples were collected and handled in accordance with standards outlined in the ADEC Field Sampling Guidance (October 2019). Prior to collecting analytical soil samples, equipment and tools were decontaminated to remove soil that may have contain contamination. Shovels and equipment were sprayed with a solution of Alconox and wiped down with paper towels until all soil was removed. Cleaning solution was applied such that it did not drip off the equipment but was absorbed by paper towels used to wipe the equipment. TPEC used a peristaltic pump for the collection of groundwater samples. Pump tubing was replaced between well development and sampling.

Field duplicates samples were collected simultaneously from the same sampling location as the parent sample. TPEC personnel used identical sampling methods to retrieve one duplicate for every 10 samples

for each sample matrix. Field duplicate samples were collected from screening locations exhibiting the highest PID heated headspace screening results.

All samples were collected and stored in proper sampling containers and placed in a cooler on ice. Chain of Custody records were maintained for each sample. Samples were kept between zero (0) and six (6) degrees centigrade (°C). TPEC personnel placed custody seals on all coolers to determine if the samples may have been tampered with while being transported to the laboratory. Trip blanks remained with the samples after collection and were analyzed by SGS. All samples were received by SGS within sample holding times. All laboratory method blanks, sample duplicates and matrix spikes met quality control definitions. This section discusses quality control methods and results for all soil and water samples collected for laboratory analysis at Danger Bay.

10.1 Soil Samples

Failed surrogate recoveries occurred for 18 soil samples collected from Danger Bay. In general, these failed surrogate recoveries likely occurred because soil samples contained high enough levels of petroleum contamination to effectively mask surrogate detection. Failed surrogate recoveries included 10 samples (TH4-0, TH15-48, TH15-96, TH15-72, TH22-48, TH21-0, TH23-0, TH24-0, TH24-24, and TH25-24) analyzed for GRO analysis (AK101). Five samples (TH15-96, TH22-48, TH21-0, TH23-0, and TH24-0) failed surrogate recoveries for VOC analysis (Method: SW8260D). One sample (TH25-24) fail surrogate recoveries for DRO analysis (AK102). One sample (TH14-0) failed surrogate recoveries for PAH analysis (8270D SIM) and RRO analysis (AK103).

Multiple soil samples collected from Danger Bay had VOC analytes with LOQs greater than the ADEC MTG cleanup level. These results are summarized in Table 55 below.

Table 55: VOC Results w/ LOQ Above MTG Cleanup Levels

| VOC Parameter | Affected Samples |
|------------------------------|---|
| 1, 1, 1, 2-Tetrachloroethane | TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH23-0, TH25-24, TH25-36, TH25-96, TH27-0, S1, S26 |
| 1, 1, 2, 2-Tetrachloroethane | TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH23-0, TH25-24, TH25-36, TH25-96, S1 |
| 1, 1, 2-Trichloroethane | TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH23-0, TH25-24, TH25-36, TH25-96 |
| 1,1-Dichloroethane | TH15-96, TH15-72, TH22-48, |
| 1, 2, 3-Trichlorobenzene | TH15-48, TH15-96, TH15-72, TH16-36, TH22-48 |
| 1, 2, 3-Trichloropropane | All Samples |
| 1, 2, 4-Trichlorobenzene | TH15-48, TH15-96, TH15-72, TH22-48, TH23-0, TH25-24, TH25-36, TH25-96 |
| 1, 2-Dibromoethane (EDB) | All Samples |
| 1, 2-Dichloroethane | TH15-48, TH15-96, TH15-72, TH16-36, TH22-48 |
| 1, 2-Dichloropropane | TH15-48, TH15-96, TH15-72, TH16-36, TH22-48 |
| 1, 4-Dichlorobenzene | TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH23-0, TH25-24, TH25-36, TH25-96, S1 |
| 2-Hexanone | TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH23-0, TH24-0, TH24-24, TH25-24, TH25-36, TH25-96, |

| | |
|---------------------------|--|
| | TH27-0, S1, S26 |
| Benzene | TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH23-0 |
| Bromodichloromethane | TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH23-0, TH25-24, TH25-36, TH25-96, S1 |
| Bromoform | TH15-96, TH15-72, TH22-48 |
| Bromomethane | TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH23-0, TH24-24, TH25-24, TH25-36, TH25-96, TH27-0, S1, S26 |
| Carbon tetrachloride | TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH23-0, TH25-24, TH25-36, TH25-96, S1, S26 |
| Chloroform | TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH23-0, TH25-24, TH25-36, TH25-96 |
| Dibromochloromethane | All Samples |
| Dibromomethane | TH15-48, TH15-96, TH15-72, TH16-36, TH21-16, TH22-24, TH22-48, TH23-0, TH24-0, TH24-24, TH25-24, TH25-36, TH25-96, TH27-0, S1, S8, S9, S26 |
| Hexachlorobutadiene | TH15-48, TH15-96, TH15-72, TH16-36, TH21-16, TH22-24, TH22-48, TH23-0, TH24-0, TH24-24, TH25-24, TH25-36, TH25-96, TH27-0, S1, S8, S9, S26 |
| Methyl-t-butyl ether | TH15-48, TH15-96, TH15-72, TH22-48 |
| Methylene chloride | TH15-96, TH15-72, TH22-48, TH23-0, TH25-24, TH25-36, TH25-96 |
| Naphthalene | TH16-36, TH22-24, TH22-48, TH23-0, TH25-24, TH25-36, TH25-96, S1 |
| Trichloroethene | TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH25-24, TH25-96 |
| Vinyl chloride | TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH21-16, TH23-0, TH24-0, TH24-24, TH25-24, TH25-36, TH25-96, TH27-0, S1, S8, S9, S26 |
| cis-1,3-Dichloropropene | TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH23-0, TH25-24, TH25-36, TH25-96, S1 |
| trans-1,3-Dichloropropene | TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH23-0, TH25-24, TH25-36, TH25-96, S1 |

All samples collected from Danger Bay had at least two VOC parameters with an LOQ above ADEC MTG cleanup levels. TPEC believes that the usability of the collected VOC data remains valid because all soil samples containing elevated LOQs from VOC analysis were collected in areas with detectable concentrations of hydrocarbon range organics like DRO and RRO. According to SGS laboratory personnel, it is common for Method SW8260D analysis to be disrupted by detectable concentrations of petroleum within a sample. Furthermore, SGS laboratory personnel stated that the VOC analytes, in particular (1,2,3-trichloropropane, EDB, and dibromochloromethane) are the only remaining low-level VOC analytes processed using selected ion monitoring (SIM) under Method 8260D. Because of this, the SIM process routinely elevates the limit of quantitation for these three VOC parameters. See the Data Review Checklist in Appendix C for more information.

Multiple soil samples collected from Danger Bay had an LOQ above MTG cleanup levels for the PAH analyte naphthalene. Samples TH15-96, TH15-72, TH22-24, TH25-96, N3, N7, and N18 each had a LOQ that exceeded MTG cleanup levels for naphthalene. Like VOC analysis, TPEC believes that the usability of the collected PAH data remains valid because all soil samples containing elevated LOQs were collected in areas with detectable concentrations of hydrocarbon range organics like DRO and/or RRO.

Three soil samples, TH22-24, TH22-48, and S1, had an LOQ above MTG cleanup levels for the RCRA metals analyte mercury. TPEC believes that the usability of the collected RCRA metals data remains valid

because all three soil samples with elevated LOQs had low percent solids. The detection limit for these samples were well below the MTG cleanup level meaning the low percent solids were the cause of the elevated LOQs.

10.2 Water Samples

Two water samples, TH27W1 and TH27W2, were collected and analyzed for VOCs. One analyte, 1,2,3-Trichloropropane, had an LOQ above MTG cleanup levels. SGS lab technicians informed TPEC that their lab equipment cannot detect below the MTG cleanup levels for the VOC analyte 1,2,3-Trichloropropane. Therefore, water samples collected for VOC analysis remain valid.

11.0 SITE RECCOMENDATIONS AND CONCLUSIONS

Based on the findings of this investigation, contaminated soils exist at select outlier sites within the subject property. Hydrocarbon contaminated soils, primarily DRO, more than the applicable ADEC MTG cleanup levels was present. Except for the Sort Yard, contamination at outlier sites appears to be historic from old logging operations. Contamination within the Sort Yard appears to have originated from historic and ongoing releases of diesel fuel. Additionally, groundwater does not appear to be affected by historical contamination.

TPEC has the following recommendations to address the immediate risks:

- TPEC recommend digging additional test holes north of TH15 to determine if contamination exists along the northern end of the pullout near the Cobblestone Junction
- Remove contaminated soils at the following outlier sites:
 - Old & New Cobblestone Saw Gas; and
 - 6.5 Mile Rock Pit and Debris Area
- Expand the Bioremediation Treatment Cell to treat contaminated soils from outlier sites.
- Discuss with ADEC how to move forward at the Sort Yard because logging activities are still taking place at the site.
- Submit a Work Plan to the ADEC that discusses how remaining contamination at the site will be removed and remediated.

APPENDIX A:
Figures



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 907-522-4337

**Danger Bay Log Camp
 Site Characterization
 Work Plan
 Afognak Island, Alaska**

Location and Vicinity Map
 Figure #1

Project No: 1072-05

File: Company/Projects/1072/05

Date: 12/7/2020

Scale: 1" ~2.3 Miles



| | | | |
|--|---|---|---------------------------|
| <p>Travis/Peterson Environmental Consulting 3305 Arctic Boulevard, Suite 102 Anchorage, AK 99503 907-522-4337</p> | <p>Danger Bay Log Camp Site Characterization Work Plan Afognak Island, Alaska</p> | <p>Approximate Location of Outlier Sites Figure #2</p> | |
| <p>Project No: 1072-05</p> | <p>File: Company/Projects/1072/05</p> | <p>Date: 10/26/2021</p> | <p>Scale: 1" ~ 5,950'</p> |



| | | | |
|--|---|--|-------------------------|
| <p>Travis/Peterson Environmental Consulting 3305 Arctic Boulevard, Suite 102 Anchorage, AK 99503 907-522-4337</p> | <p>Danger Bay Log Camp Site Characterization Work Plan Afognak Island, Alaska</p> | <p>Location of Treatment Cell , Equipment Repair Yard, and Sort Yard</p> <p>Figure #3</p> | |
| <p>Project No: 1072-05</p> | <p>File: Company/Projects/1072/05</p> | <p>Date: 12/7/2020</p> | <p>Scale: 1" ~ 320'</p> |



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**Danger Bay Log Camp
 Site Characterization
 Work Plan**
 Afognak Island, Alaska

Test Hole Locations at 6.5 Mile
 1110 Road Saw Gas

Figure #4

Project No: 1072-05

File: Company/Projects/1072/05

Date: 10/26/2021

Scale: 1" ~ 85'



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**Danger Bay Log Camp
 Site Characterization
 Work Plan**
 Afognak Island, Alaska

**Test Hole Locations at Old/New Cobblestone
 Saw Gas**
Figure #5

Project No: 1072-05

File: Company/Projects/1072/05

Date: 10/26/2021

Scale: 1" ~ 320'



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**Danger Bay Log Camp
 Site Characterization
 Work Plan
 Afognak Island, Alaska**

Test Hole Locations at Petticoat Saw Gas
Figure #6

Project No: 1072-05

File: Company/Projects/1072/05

Date: 10/26/2021

Scale: 1" ~ 100'



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**Danger Bay Log Camp
 Site Characterization
 Work Plan
 Afognak Island, Alaska**

Test Hole Locations at Equipment Repair Yard
 Figure #7

Project No: 1072-05

File: Company/Projects/1072/05

Date: 1026/2021

Scale: 1" ~ 90'



Legend

Test Hole w/ Analytical Sample ●

Note:
 TH21 & TH22 were dug within the Sort Yard Circle site. TH23, TH24, & TH25 were dug within the Former AST site.

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**Danger Bay Log Camp
 Site Characterization
 Work Plan
 Afognak Island, Alaska**

Test Hole Locations at Sort Yard Circle and
 Former AST
Figure #8

Project No: 1072-05

File: Company/Projects/1072/05

Date: 10/26/2021

Scale: 1" ~ 90'



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**Danger Bay Log Camp
 Site Characterization
 Work Plan**
 Afognak Island, Alaska

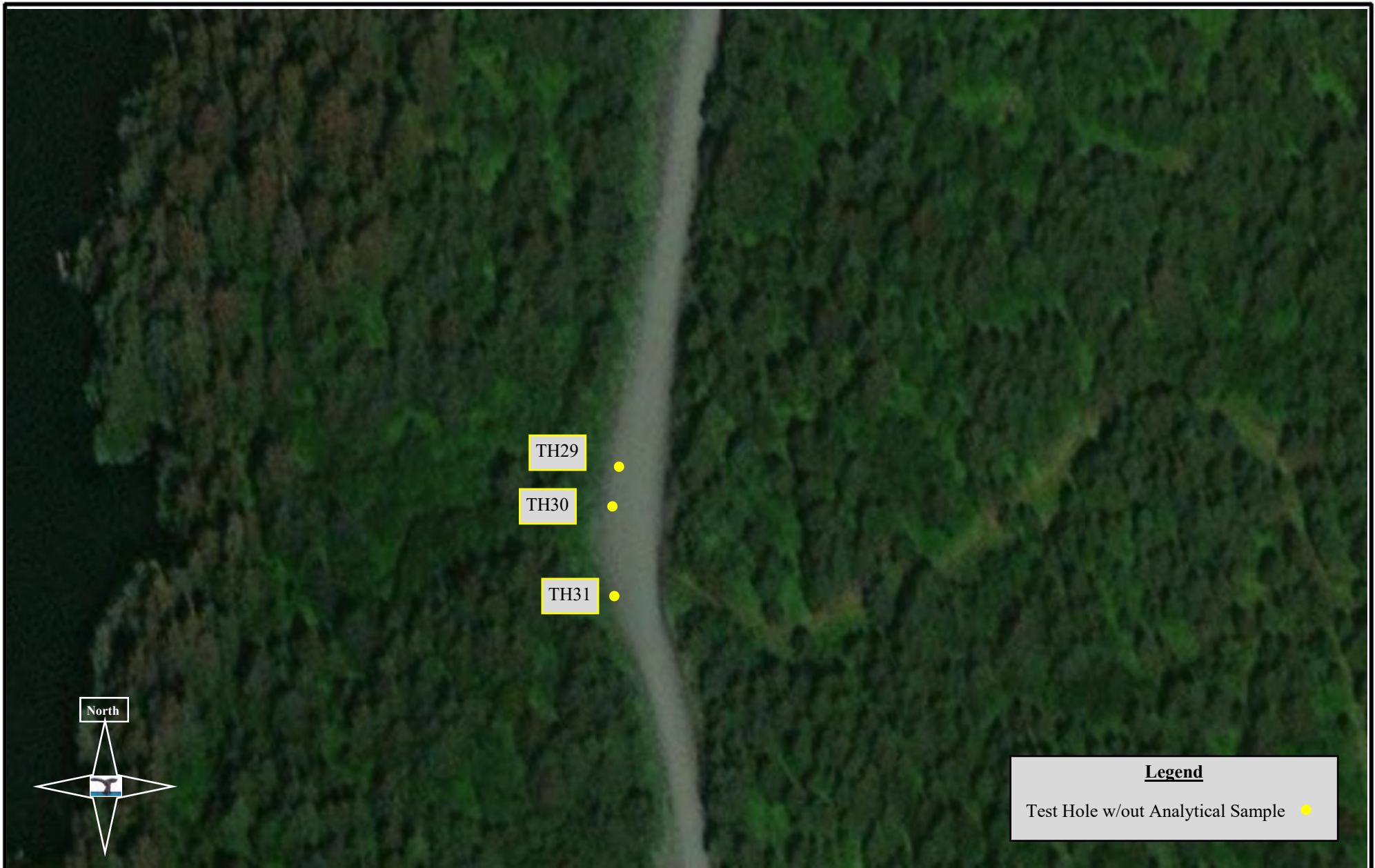
Test Hole Locations at Mile 6.5 Rock Debris
 Area
 Figure #9

Project No: 1072-05

File: Company/Projects/1072/05

Date: 10/26/2021

Scale: 1" ~ 100'



TH29

TH30

TH31

North

Legend

Test Hole w/out Analytical Sample ●

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**Danger Bay Log Camp
 Site Characterization
 Work Plan**
 Afognak Island, Alaska

**Test Hole Locations at 1.0 Mile 1100
 Road Saw Gas**

Figure #10

Project No: 1072-05

File: Company/Projects/1072/05

Date: 10/26/2021

Scale: 1" ~ 100'



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**Danger Bay Log Camp
 Site Characterization Work Plan**
 Afognak Island, Alaska

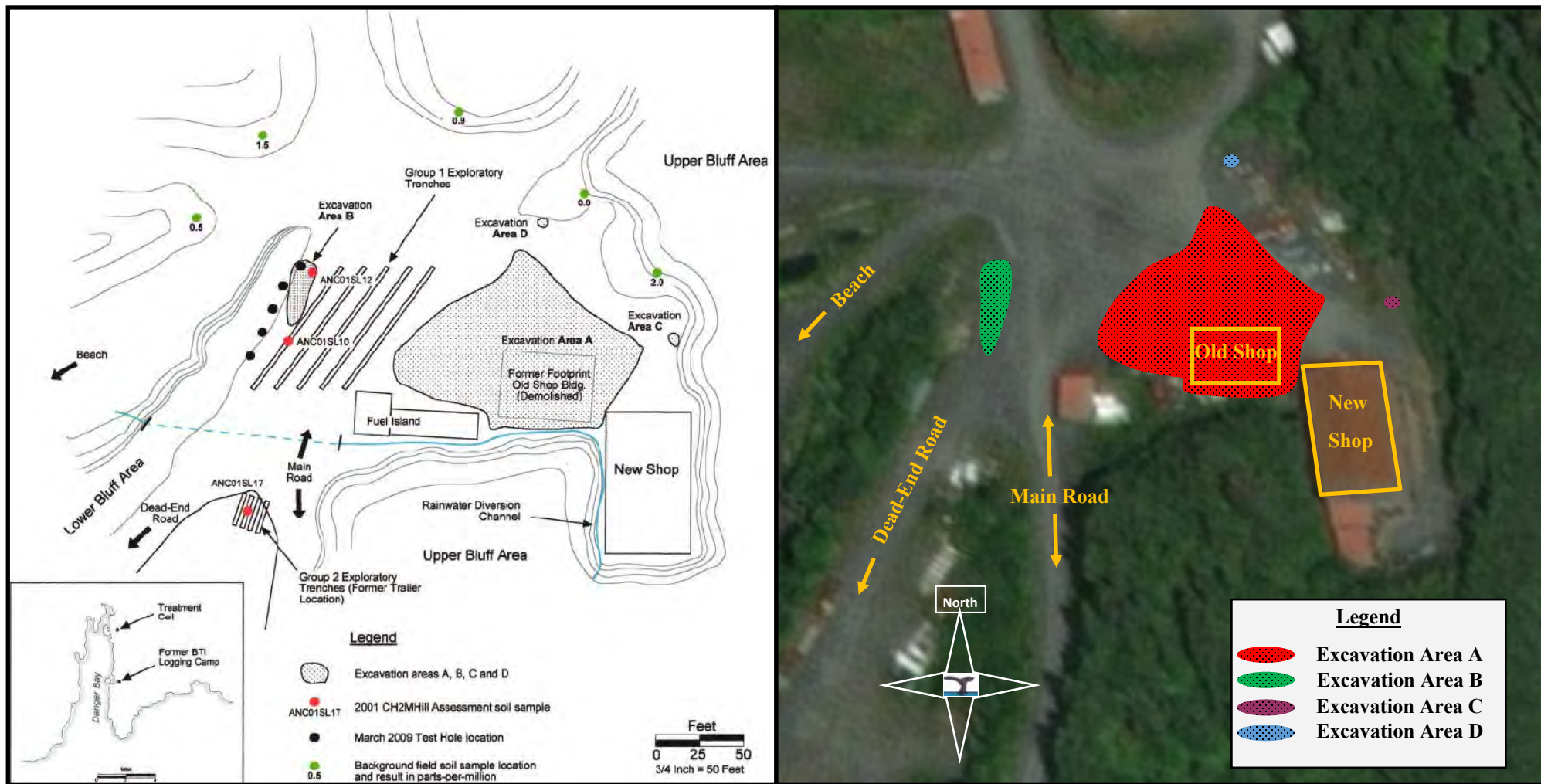
**Test Hole Locations Within the
 Treatment Cell**
 Figure #11

Project No: 1072-05

File: Company/Projects/1072/05

Date: 10/26/2021

Scale: 1" ~ 50'



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**Danger Bay Log Camp
 Site Characterization
 Afognak Island, Alaska**

Excavations at BTI Logging Camp

Figure #12

Project No: 1072-05

File: Company/Projects/1072/05

Date: 3/10/22

Scale: 1-inch = 80-ft



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Danger Bay Log Camp
Site Characterization
 Afognak Island, Alaska

Drinking Water Well

Figure #13

Project No: 1072-05

File: Company/Projects/1072/05

Date: 3/14/22

Scale: 1-inch = 180-ft

APPENDIX B:
Results Data Tables

Table 1: PID Field Screening

| Sample ID | Depth (in) | PID Reading |
|-----------------|------------|----------------|
| | | ppm |
| TH1-0 | 0 | 0.2 |
| TH1-8 | 8 | 0.3 |
| TH2-0 | 0 | 0.4 |
| TH3-0 | 0 | 0.1 |
| TH3-8 | 8 | 0.3 |
| TH4-0 | 0 | 0.6 |
| TH4-24 | 24 | 0.3 |
| TH5-0 | 0 | 1.4 |
| TH5-15 | 15 | 0.2 |
| TH6-0 | 0 | 0.7 |
| TH6-18 | 18 | 0.4 |
| TH7-0 | 0 | 0.5 |
| TH7-12 | 12 | 0.5 |
| TH8-0 | 0 | 0.4 |
| TH8-24 | 24 | 0.5 |
| TH8-48 | 48 | 0.3 |
| TH9-0 | 0 | 0.4 |
| TH9-24 | 24 | 0.2 |
| TH9-32 | 32 | 0.2 |
| TH10-0 | 0 | 0.4 |
| TH10-12 | 12 | 3.5 |
| TH11-0 | 0 | 0.5 |
| TH11-24 | 24 | 1.3 |
| TH11-48 | 48 | 0.6 |
| TH12-0 | 0 | 0.4 |
| TH12-24 | 24 | 0.3 |
| TH12-48 | 48 | 0.5 |
| TH13-0 | 0 | 2.4 |
| TH13-24 | 24 | 1.4 |
| TH14-0 | 0 | 1.2 |
| TH14-22 | 22 | 1.5 |
| TH15-0 | 0 | 0.8 |
| TH15-24 | 24 | 94.4 |
| TH15-48 | 48 | 2,168.0 |
| TH15-72* | 72 | 3,264.0 |
| TH15-84 | 84 | 1,578.0 |
| TH16-0 | 0 | 0.5 |
| TH16-12 | 12 | 0.2 |
| TH16-36 | 36 | 16.8 |
| TH16-60 | 60 | 1.9 |
| TH17-0 | 0 | 0.3 |
| TH17-24 | 24 | 0.2 |
| TH17-48 | 48 | 1.5 |

| Sample ID | Depth (in) | PID Reading |
|-----------------|------------|--------------|
| | | ppm |
| TH17-72 | 72 | 1.4 |
| TH18-0 | 0 | 0.1 |
| TH18-24 | 24 | 0.2 |
| TH18-42 | 42 | 0.3 |
| TH19-0 | 0 | 0.2 |
| TH19-24 | 24 | 0.2 |
| TH20-0 | 0 | 0.2 |
| TH20-24 | 24 | 0.2 |
| TH21-0 | 0 | 7.1 |
| TH21-16 | 16 | 9.5 |
| TH22-0 | 0 | 37.0 |
| TH22-24 | 24 | 45.2 |
| TH22-48 | 48 | 41.1 |
| TH23-0 | 0 | 8.6 |
| TH23-24 | 24 | 1.3 |
| TH23-48 | 48 | 0.1 |
| TH23-72 | 72 | 1.2 |
| TH24-0* | 0 | 12.8 |
| TH24-16 | 16 | 10.8 |
| TH25-0 | 0 | 15.3 |
| TH25-12 | 12 | 16.8 |
| TH25-24 | 24 | 47.3 |
| TH25-36* | 36 | 111.0 |
| TH25-48 | 48 | 39.6 |
| TH25-72 | 72 | 1.2 |
| TH26-0 | 0 | 4.9 |
| TH26-6 | 6 | 9.1 |
| TH27-0 | 0 | 12.3 |
| TH27-24 | 24 | 177.8 |
| TH28-0 | 0 | 6.7 |
| TH28-12 | 12 | 9.6 |
| TH29-0 | 0 | 0.7 |
| TH29-6 | 6 | 0.3 |
| TH30-0 | 0 | 0.6 |
| TH30-12 | 12 | 0.5 |
| TH31-0 | 0 | 0.7 |
| TH31-24 | 24 | 0.3 |
| TH31-48 | 48 | 0.2 |
| TH31-60 | 60 | 0.3 |

Notes:
Bolded values indicate analytical sample.
 * indicates duplicate sample location.

Table 1: PID Field Screening

| Sample ID | Depth (in) | PID Reading |
|------------|------------|-------------|
| | | ppm |
| S1 | 18 | 0.9 |
| S2 | 18 | 0.5 |
| S3 | 18 | 0.3 |
| S4 | 18 | 0.5 |
| S5* | 18 | 0.7 |
| S6 | 18 | 0.4 |
| S7 | 18 | 0.4 |
| S8 | 18 | 0.6 |
| S9 | 18 | 0.7 |
| S10 | 18 | 0.6 |
| S11 | 18 | 0.6 |
| S12 | 18 | 0.2 |
| S13 | 18 | 0.2 |
| S14 | 18 | 0.4 |
| S15 | 18 | 0.3 |
| S16 | 18 | 0.4 |
| S17 | 18 | 0.3 |
| S18 | 18 | 0.1 |
| S19 | 18 | 0.3 |
| S20 | 18 | 0.5 |
| S21 | 18 | 0.3 |
| S22 | 18 | 0.2 |
| S23 | 18 | 0.3 |
| S24 | 18 | 0.4 |
| S25 | 18 | 0.5 |

Notes:

Bolded values indicate analytical sample.

* indicates duplicate sample location.

Samples S1-S25 and N1-N25 originated from Treatment Cell (East Bioremediation Cell)

| Sample ID | Depth (in) | PID Reading |
|-------------|------------|-------------|
| | | ppm |
| N1 | 18 | 0.4 |
| N2 | 18 | 1.1 |
| N3 | 18 | 1.8 |
| N4 | 18 | 0.2 |
| N5 | 18 | 0.2 |
| N6 | 18 | 0.9 |
| N7 | 18 | 1.7 |
| N8 | 18 | 0.4 |
| N9 | 18 | 0.3 |
| N10 | 18 | 0.2 |
| N11 | 18 | 1.4 |
| N12 | 18 | 0.5 |
| N13 | 18 | 0.7 |
| N14 | 18 | 1.1 |
| N15 | 18 | 1.0 |
| N16 | 18 | 0.8 |
| N17 | 18 | 1.2 |
| N18 | 18 | 9.6 |
| N19* | 18 | 26.1 |
| N20 | 18 | 3.7 |
| N21 | 18 | 0.8 |
| N22 | 18 | 0.9 |
| N23 | 18 | 0.5 |
| N24 | 18 | 1.1 |
| N25 | 18 | 2.2 |

Notes:

Bolded values indicate analytical sample.

* indicates duplicate sample location.

Samples S1-S25 and N1-N25 originated from Treatment Cell (East Bioremediation Cell)

TABLE 2: GRO, DRO, & RRO Results

| Sample ID | Approx. Depth (in) | Solids | GRO | DRO | RRO |
|-----------|--------------------|--------|-----------|-------------|--------------|
| | | % | 260 mg/Kg | 230 mg/Kg | 9700 mg/Kg |
| TH4-0 | 0 | 90.4 | 2.26 U | 984 | 4760 |
| TH4-24 | 24 | 92.8 | 2.44 U | 21.5 U | 108 U |
| TH9-0 | 0 | 88 | 2.19 U | 51 | 314 |
| TH14-0 | 0 | 88 | 3.32 U | 4520 | 16200 |
| TH15-48 | 48 | 55 | 37 | 109 | 223 |
| TH15-96 | 96 | 87 | 32 | 1910 | 113 U |
| TH15-72 | 72 | 85.1 | 72.4 | 2370 | 117 U |
| TH16-36 | 36 | 54.6 | 8.16 U | 36.2 U | 181 U |
| TH22-24 | 24 | 65.5 | 8 | 1860 | 6060 |
| TH22-48 | 48 | 43.5 | 35.2 | 3460 | 7470 |
| TH21-0 | 0 | 84.1 | 2.24 U | 85.7 | 343 |
| TH21-16 | 16 | 90.8 | 2.55 U | 71.4 | 317 |
| TH23-0 | 0 | 71.5 | 4.47 U | 2420 | 4210 |
| TH24-16 | 16 | 91.1 | 2.36 U | 78.5 | 273 |
| TH24-0 | 0 | 78.4 | 2.94 U | 226 | 728 |
| TH24-24 | 24 | 79.1 | 3.04 U | 271 | 1050 |
| TH25-24 | 24 | 71.5 | 6.20 U | 5930 | 8060 |
| TH25-36 | 36 | 68.7 | 5.11 U | 1120 | 2380 |
| TH25-96 | 96 | 64.8 | 5.61 U | 1430 | 2110 |
| TH27-0 | 0 | 86.5 | 3.16 U | 23.1 U | 115 U |
| TH27-24 | 24 | 87.2 | 2.24 U | 252 | 114 U |
| S1 | 18 | 69.9 | 3.91 U | 60.2 | 216 |
| S5 | 18 | 86.8 | 2.17 U | 89.3 | 225 |
| S8 | 18 | 85.7 | 2.65 U | 41.6 | 159 |
| S9 | 18 | 90.4 | 2.61 U | 320 | 205 |
| S10 | 18 | 91.1 | 2.00 U | 218 | 651 |
| S11 | 18 | 91.1 | 2.42 U | 25 | 110 U |
| S26 | 18 | 79.5 | 3.10 U | 55.4 | 214 |
| N3 | 18 | 90.1 | 2.26 U | 562 | 1420 |
| N7 | 18 | 88.3 | 2.50 U | 590 | 113 U |
| N18 | 18 | 92 | 2.08 U | 1830 | 2130 |
| N19 | 18 | 90.6 | 1.97 U | 733 | 1360 |
| N20 | 18 | 90.2 | 2.16 U | 120 | 764 |
| N25 | 18 | 92 | 2.15 U | 68.6 | 282 |
| N26 | 18 | 90.9 | 1.80 U | 836 | 1560 |

Notes:

Bolded values in red indicate exceedence of ADEC Method Two, 'Migration to Groundwater Cleanup Level'.

Bolded values in blue indicate LOQ was above the ADEC Method Two, 'Migration to Groundwater Cleanup Level'.

U indicates the analyte was analyzed for but not detected.

| Analyte | Cleanup Level | TH4-0 | TH4-24 | TH9-0 | TH14-0 | TH15-48 | TH15-96 | TH15-72 |
|-----------------------------|----------------|------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|
| | mg/Kg | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 0.022 | 0.0181U | 0.0196U | 0.0176U | 0.0181U | 0.0718U | 0.0818U | 0.0907U |
| 1,1,1-Trichloroethane | 32 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| 1,1,2,2-Tetrachloroethane | 0.003 | 0.00181U | 0.00196U | 0.00176U | 0.00181U | 0.00718U | 0.00818U | 0.00907U |
| 1,1,2-Trichloroethane | 0.0014 | 0.000724U | 0.000782U | 0.000702U | 0.000724U | 0.00287U | 0.00327U | 0.00363U |
| 1,1-Dichloroethane | 0.092 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| 1,1-Dichloroethene | 1.2 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| 1,1-Dichloropropene | None Available | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| 1,2,3-Trichlorobenzene | 0.15 | 0.0453U | 0.0489U | 0.0439U | 0.0452U | 0.179U | 0.205U | 0.227U |
| 1,2,3-Trichloropropane | 0.000031 | 0.00181U | 0.00196U | 0.00176U | 0.00181U | 0.00718U | 0.00818U | 0.00907U |
| 1,2,4-Trichlorobenzene | 0.082 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| 1,2,4-Trimethylbenzene | 0.61 | 0.0453U | 0.0489U | 0.0439U | 0.0452U | 6.88 | 0.295 | 0.281 |
| 1,2-Dibromo-3-chloropropane | None Available | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.409U | 0.454U |
| 1,2-Dibromoethane | 0.00024 | 0.000905U | 0.000978U | 0.000878U | 0.000905U | 0.00359U | 0.00409U | 0.00454U |
| 1,2-Dichlorobenzene | 2.4 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| 1,2-Dichloroethane | 0.0055 | 0.00181U | 0.00196U | 0.00176U | 0.00181U | 0.00718U | 0.00818U | 0.00907U |
| 1,2-Dichloropropane | 0.03 | 0.00905U | 0.00978U | 0.00878U | 0.00905U | 0.0359U | 0.0409U | 0.0454U |
| 1,3,5-Trimethylbenzene | 0.66 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 2.48 | 0.102U | 0.113U |
| 1,3-Dichlorobenzene | 2.3 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| 1,3-Dichloropropane | None Available | 0.00905U | 0.00978U | 0.00878U | 0.00905U | 0.0359U | 0.0409U | 0.0454U |
| 1,4-Dichlorobenzene | 0.037 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| 2,2-Dichloropropane | None Available | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| 2-Butanone (MEK) | 15 | 0.226U | 0.244U | 0.219U | 0.226U | 0.897U | 1.02U | 1.13U |
| 2-Chlorotoluene | None Available | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| 2-Hexanone | 0.11 | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.409U | 0.454U |
| 4-Chlorotoluene | None Available | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| 4-Isopropyltoluene | None Available | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.431 | 0.573 |
| 4-Methyl-2-pentanone (MIBK) | 18 | 0.226U | 0.244U | 0.219U | 0.226U | 0.897U | 1.02U | 1.13U |
| Acetone | 38 | 0.226U | 0.244U | 0.219U | 0.226U | 0.897U | 1.02U | 1.13U |
| Benzene | 0.022 | 0.0113U | 0.0122U | 0.011U | 0.0113U | 0.0449U | 0.0511U | 0.0567U |
| Bromobenzene | 0.36 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| Bromochloromethane | None Available | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| Bromodichloromethane | 0.0043 | 0.00181U | 0.00196U | 0.00176U | 0.00181U | 0.00718U | 0.00818U | 0.00907U |
| Bromoform | 0.1 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| Bromomethane | 0.024 | 0.0181U | 0.0196U | 0.0176U | 0.0181U | 0.0718U | 0.0818U | 0.0907U |
| Carbon disulfide | 2.9 | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.409U | 0.454U |
| Carbon tetrachloride | 0.021 | 0.0113U | 0.0122U | 0.011U | 0.0113U | 0.0449U | 0.0511U | 0.0567U |
| Chlorobenzene | 0.46 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| Chloroethane | 72 | 0.181U | 0.196U | 0.176U | 0.181U | 0.718U | 0.818U | 0.907U |
| Chloroform | 0.0071 | 0.00362U | 0.00391U | 0.00351U | 0.00362U | 0.0144U | 0.0164U | 0.0181U |
| Chloromethane | 0.61 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| Dibromochloromethane | 0.0027 | 0.00453U | 0.00489U | 0.00439U | 0.00452U | 0.0179U | 0.0205U | 0.0227U |
| Dibromomethane | 0.025 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| Dichlorodifluoromethane | 3.9 | 0.0453U | 0.0489U | 0.0439U | 0.0452U | 0.179U | 0.205U | 0.227U |
| Ethylbenzene | 0.13 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.161 | 0.102U | 0.113U |
| Freon-113 | 310 | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.409U | 0.454U |
| Hexachlorobutadiene | 0.02 | 0.0181U | 0.0196U | 0.0176U | 0.0181U | 0.0718U | 0.0818U | 0.0907U |
| Isopropylbenzene (Cumene) | 5.6 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.858 | 0.102U | 0.113U |
| Methyl-t-butyl ether | 0.33 | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.409U | 0.454U |
| Methylene chloride | 0.4 | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.409U | 0.454U |
| Naphthalene | 0.038 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 2.82 | 0.134 | 0.205 |
| P & M -Xylene | None Available | 0.0453U | 0.0489U | 0.0439U | 0.0452U | 4.52 | 0.205U | 0.227U |
| Styrene | 10 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| Tetrachloroethene | 0.19 | 0.0113U | 0.0122U | 0.011U | 0.0113U | 0.0449U | 0.0511U | 0.0567U |
| Toluene | 6.7 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| Trichloroethene | 0.011 | 0.00453U | 0.00489U | 0.00439U | 0.00452U | 0.0179U | 0.0205U | 0.0227U |
| Trichlorofluoromethane | 41 | 0.0453U | 0.0489U | 0.0439U | 0.0452U | 0.179U | 0.205U | 0.227U |
| Vinyl acetate | 1.1 | 0.0905U | 0.0978U | 0.0878U | 0.0905U | 0.359U | 0.409U | 0.454U |
| Vinyl chloride | 0.0008 | 0.000724U | 0.000782U | 0.000702U | 0.000724U | 0.00287U | 0.00327U | 0.00363U |
| Xylenes (total) | 1.5 | 0.0679U | 0.0733U | 0.0658U | 0.0679U | 5.08 | 0.307U | 0.34U |
| cis-1,2-Dichloroethene | 0.12 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| cis-1,3-Dichloropropene | 0.018 | 0.0113U | 0.0122U | 0.011U | 0.0113U | 0.0449U | 0.0511U | 0.0567U |
| n-Butylbenzene | 23 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| n-Propylbenzene | 9.1 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 1.95 | 0.314 | 0.339 |
| o-Xylene | None Available | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.562 | 0.102U | 0.113U |
| sec-Butylbenzene | 42 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.603 | 0.758 | 1.01 |
| tert-Butylbenzene | 11 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| trans-1,2-Dichloroethene | 1.3 | 0.0226U | 0.0244U | 0.0219U | 0.0226U | 0.0897U | 0.102U | 0.113U |
| trans-1,3-Dichloropropene | 0.018 | 0.0113U | 0.0122U | 0.011U | 0.0113U | 0.0449U | 0.0511U | 0.0567U |

Notes:

Bolded values in red indicate exceedence of ADEC Method Two, 'Migration to Groundwater Cleanup Level'.

Bolded values in blue indicate LOQ was above the ADEC Method Two, 'Migration to Groundwater Cleanup Level'.

U indicates the analyte was analyzed for but not detected.

TABLE 3B: VOC RESULTS

| Analyte | Cleanup Level mg/Kg | TH16-36 | TH22-24 | TH22-48 | TH21-0 | TH21-16 | TH23-0 | TH24-16 |
|-----------------------------|------------------------|----------|----------|----------|-----------|-----------|----------|-----------|
| 1,1,1,2-Tetrachloroethane | 0.022 | 0.0653U | 0.0471U | 0.0898U | 0.0179U | 0.0204U | 0.0358U | 0.0189U |
| 1,1,1-Trichloroethane | 32 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| 1,1,2,2-Tetrachloroethane | 0.003 | 0.00653U | 0.00471U | 0.00898U | 0.00179U | 0.00204U | 0.00358U | 0.00189U |
| 1,1,2-Trichloroethane | 0.0014 | 0.00261U | 0.00188U | 0.00359U | 0.000716U | 0.000816U | 0.00143U | 0.000754U |
| 1,1-Dichloroethane | 0.092 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| 1,1-Dichloroethene | 1.2 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| 1,1-Dichloropropene | None Available | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| 1,2,3-Trichlorobenzene | 0.15 | 0.163U | 0.118U | 0.224U | 0.0448U | 0.051U | 0.0895U | 0.0471U |
| 1,2,3-Trichloropropane | 0.000031 | 0.00653U | 0.00471U | 0.00898U | 0.00179U | 0.00204U | 0.00358U | 0.00189U |
| 1,2,4-Trichlorobenzene | 0.082 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| 1,2,4-Trimethylbenzene | 0.61 | 0.163U | 0.118U | 0.224U | 0.0448U | 0.051U | 0.0895U | 0.0471U |
| 1,2-Dibromo-3-chloropropane | None Available | 0.327U | 0.235U | 0.449U | 0.0895U | 0.102U | 0.179U | 0.0943U |
| 1,2-Dibromoethane | 0.00024 | 0.00327U | 0.00235U | 0.00449U | 0.000895U | 0.00102U | 0.00179U | 0.000943U |
| 1,2-Dichlorobenzene | 2.4 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| 1,2-Dichloroethane | 0.0055 | 0.00653U | 0.00471U | 0.00898U | 0.00179U | 0.00204U | 0.00358U | 0.00189U |
| 1,2-Dichloropropane | 0.03 | 0.0327U | 0.0235U | 0.0449U | 0.00895U | 0.0102U | 0.0179U | 0.00943U |
| 1,3,5-Trimethylbenzene | 0.66 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| 1,3-Dichlorobenzene | 2.3 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| 1,3-Dichloropropane | None Available | 0.0327U | 0.0235U | 0.0449U | 0.00895U | 0.0102U | 0.0179U | 0.00943U |
| 1,4-Dichlorobenzene | 0.037 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| 2,2-Dichloropropane | None Available | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| 2-Butanone (MEK) | 15 | 0.816U | 0.588U | 1.12U | 0.224U | 0.255U | 0.447U | 0.236U |
| 2-Chlorotoluene | None Available | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| 2-Hexanone | 0.11 | 0.327U | 0.235U | 0.449U | 0.0895U | 0.102U | 0.179U | 0.0943U |
| 4-Chlorotoluene | None Available | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| 4-Isopropyltoluene | None Available | 0.327U | 19.1 | 3.5 | 0.135 | 0.421 | 0.179U | 0.473 |
| 4-Methyl-2-pentanone (MIBK) | 18 | 0.816U | 0.588U | 1.12U | 0.224U | 0.255U | 0.447U | 0.236U |
| Acetone | 38 | 0.816U | 1.37 | 1.12U | 0.224U | 0.255U | 0.447U | 0.236U |
| Benzene | 0.022 | 0.0408U | 0.0294U | 0.0561U | 0.0112U | 0.0127U | 0.0224U | 0.0118U |
| Bromobenzene | 0.36 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| Bromochloromethane | None Available | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| Bromodichloromethane | 0.0043 | 0.00653U | 0.00471U | 0.00898U | 0.00179U | 0.00204U | 0.00358U | 0.00189U |
| Bromoform | 0.1 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| Bromomethane | 0.024 | 0.0653U | 0.0471U | 0.0898U | 0.0179U | 0.0204U | 0.0358U | 0.0189U |
| Carbon disulfide | 2.9 | 0.327U | 0.235U | 0.449U | 0.0895U | 0.102U | 0.179U | 0.0943U |
| Carbon tetrachloride | 0.021 | 0.0408U | 0.0294U | 0.0561U | 0.0112U | 0.0127U | 0.0224U | 0.0118U |
| Chlorobenzene | 0.46 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| Chloroethane | 72 | 0.653U | 0.471U | 0.898U | 0.179U | 0.204U | 0.358U | 0.189U |
| Chloroform | 0.0071 | 0.0131U | 0.00941U | 0.018U | 0.00358U | 0.00408U | 0.00716U | 0.00377U |
| Chloromethane | 0.61 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| Dibromochloromethane | 0.0027 | 0.0163U | 0.0118U | 0.0224U | 0.00448U | 0.0051U | 0.00895U | 0.00471U |
| Dibromomethane | 0.025 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| Dichlorodifluoromethane | 3.9 | 0.163U | 0.118U | 0.224U | 0.0448U | 0.051U | 0.0895U | 0.0471U |
| Ethylbenzene | 0.13 | 0.0816U | 0.132 | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| Freon-113 | 310 | 0.327U | 0.235U | 0.449U | 0.0895U | 0.102U | 0.179U | 0.0943U |
| Hexachlorobutadiene | 0.02 | 0.0653U | 0.0471U | 0.0898U | 0.0179U | 0.0204U | 0.0358U | 0.0189U |
| Isopropylbenzene (Cumene) | 5.6 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| Methyl-n-butyl ether | 0.33 | 0.327U | 0.235U | 0.449U | 0.0895U | 0.102U | 0.179U | 0.0943U |
| Methylene chloride | 0.4 | 0.327U | 0.235U | 0.449U | 0.0895U | 0.102U | 0.179U | 0.0943U |
| Naphthalene | 0.038 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| P & M -Xylene | None Available | 0.163U | 0.118U | 0.224U | 0.0448U | 0.051U | 0.0895U | 0.0471U |
| Styrene | 10 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| Tetrachloroethene | 0.19 | 0.0408U | 0.0294U | 0.0561U | 0.0112U | 0.0127U | 0.0224U | 0.0118U |
| Toluene | 6.7 | 0.0816U | 0.418 | 0.135 | 0.0224U | 0.0418 | 0.377 | 0.0236U |
| Trichloroethene | 0.011 | 0.0163U | 0.0118U | 0.0224U | 0.00448U | 0.0051U | 0.00895U | 0.00471U |
| Trichlorofluoromethane | 41 | 0.163U | 0.118U | 0.224U | 0.0448U | 0.051U | 0.0895U | 0.0471U |
| Vinyl acetate | 1.1 | 0.327U | 0.235U | 0.449U | 0.0895U | 0.102U | 0.179U | 0.0943U |
| Vinyl chloride | 0.0008 | 0.00261U | 0.00188U | 0.00359U | 0.000716U | 0.000816U | 0.00143U | 0.000754U |
| Xylenes (total) | 1.5 | 0.245U | 0.177U | 0.337U | 0.0671U | 0.0765U | 0.134U | 0.0707U |
| cis-1,2-Dichloroethene | 0.12 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| cis-1,3-Dichloropropene | 0.018 | 0.0408U | 0.0294U | 0.0561U | 0.0112U | 0.0127U | 0.0224U | 0.0118U |
| n-Butylbenzene | 23 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| n-Propylbenzene | 9.1 | 0.0816U | 0.215 | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| o-Xylene | None Available | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| sec-Butylbenzene | 42 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| tert-Butylbenzene | 11 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| trans-1,2-Dichloroethene | 1.3 | 0.0816U | 0.0588U | 0.112U | 0.0224U | 0.0255U | 0.0447U | 0.0236U |
| trans-1,3-Dichloropropene | 0.018 | 0.0408U | 0.0294U | 0.0561U | 0.0112U | 0.0127U | 0.0224U | 0.0118U |

Notes:

Bolded values in red indicate exceedence of ADEC Method Two, 'Migration to Groundwater Cleanup Level'.

Bolded values in blue indicate LOQ was above the ADEC Method Two, 'Migration to Groundwater Cleanup Level'.

U indicates the analyte was analyzed for but not detected.

Table 4A: PAH Results

| Analyte | Cleanup Level | TH9-0 | TH15-96 | TH15-72 | TH16-36 | TH22-24 | TH25-36 | TH25-96 | TH27-24 | S1 | S5 | S8 | S9 | S10 | S11 | S26 | N3 | N7 | N18 | N19 | N20 | N25 | N26 |
|--------------------------|---------------|---------|---------------|---------------|---------|----------------|---------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------------|---------------|---------------|---------|---------|---------|---------|
| | mg/Kg | | | | | | | | | | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 0.41 | 0.0278U | 0.82 | 0.527 | 0.0455U | 0.0755U | 0.0515 | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| 2-Methylnaphthalene | 1.3 | 0.0278U | 0.973 | 0.599 | 0.0455U | 0.0755U | 0.0361 | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0375 | 0.0274U | 0.027U | 0.0379 |
| Acenaphthene | 37 | 0.0278U | 0.142U | 0.147U | 0.0455U | 0.0755U | 0.036U | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Acenaphthylene | 18 | 0.0278U | 0.142U | 0.147U | 0.0455U | 0.0755U | 0.036U | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Anthracene | 390 | 0.0278U | 0.142U | 0.147U | 0.0455U | 0.0755U | 0.036U | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Benzo(a)Anthracene | 0.7 | 0.0278U | 0.142U | 0.147U | 0.0455U | 0.0755U | 0.036U | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Benzo[a]pyrene | 1.2 | 0.0278U | 0.142U | 0.147U | 0.0455U | 0.0755U | 0.036U | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Benzo[b]Fluoranthene | 20 | 0.0278U | 0.142U | 0.147U | 0.0455U | 0.0755U | 0.036U | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Benzo[g,h,i]perylene | 1,900 | 0.0278U | 0.142U | 0.147U | 0.0455U | 0.0755U | 0.036U | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Benzo[k]fluoranthene | 120 | 0.0278U | 0.142U | 0.147U | 0.0455U | 0.0755U | 0.036U | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Chrysene | 600 | 0.0278U | 0.142U | 0.147U | 0.0455U | 0.0755U | 0.036U | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Dibenzof[a,h]anthracene | 1.2 | 0.0278U | 0.142U | 0.147U | 0.0455U | 0.0755U | 0.036U | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Fluoranthene | 590 | 0.0278U | 0.142U | 0.147U | 0.0455U | 0.0755U | 0.036U | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Fluorene | 36 | 0.0278U | 0.142U | 0.219 | 0.0455U | 0.0755U | 0.0628 | 0.0781 | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Indeno[1,2,3-c,d] pyrene | 12 | 0.0278U | 0.142U | 0.147U | 0.0455U | 0.0755U | 0.036U | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |
| Naphthalene | 0.038 | 0.0222U | 0.114U | 0.117U | 0.0364U | 0.0604U | 0.0288U | 0.0618U | 0.0229U | 0.0285U | 0.0227U | 0.0233U | 0.022U | 0.0215U | 0.0218U | 0.0251U | 0.111U | 0.113U | 0.108U | 0.0221U | 0.0219U | 0.0216U | 0.0216U |
| Phenanthrene | 39 | 0.0278U | 0.263 | 0.215 | 0.0455U | 0.0755U | 0.0614 | 0.0886 | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0361 | 0.0274U | 0.027U | 0.0381 |
| Pyrene | 87 | 0.0278U | 0.142U | 0.147U | 0.0455U | 0.0755U | 0.036U | 0.0772U | 0.0286U | 0.0356U | 0.0284U | 0.0291U | 0.0275U | 0.0269U | 0.0273U | 0.0313U | 0.138U | 0.141U | 0.136U | 0.0276U | 0.0274U | 0.027U | 0.027U |

Notes:
Bolded values indicate exceedence of ADEC Method Two, 'Migration to Groundwater Cleanup Level'.
 * Indicates LOQ was above the ADEC Cleanup Level.
 U Indicates the analyte was analyzed for but not detected.
 J The quantitation is an estimate.

Sample D1-24 is a field duplicate of sample D1-18.
 Sample MR1-30 is a field duplicate of sample MR1-24.
 Sample SLD2 is a field duplicate of sample SLD1.

Table 5: EDB Results

| Analyte | Cleanup Level | TH4-0 | TH4-24 | TH9-0 | TH14-0 | S1 | S5 | S8 | S9 | S10 | S11 | S26 | N3 | N7 | N18 | N19 | N20 | N25 | N26 |
|--|---------------|-----------|-----------|----------|-----------|-----------|-----------|-----------|----------|------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|------------|
| | mg/Kg | | | | | | | | | | | | | | | | | | |
| 1,2-Dibromoethane | 0.00024 | 0.000113U | 0.000122U | 0.00011U | 0.000113U | 0.000196U | 0.000108U | 0.000132U | 0.00013U | 0.0000998U | 0.000121U | 0.000155U | 0.000113U | 0.000125U | 0.000104U | 0.0000985U | 0.000108U | 0.000108U | 0.0000899U |
| <p>Notes:</p> <p>Bolded values in red indicate exceedence of ADEC Method Two, 'Migration to Groundwater Cleanup Level'.</p> <p>Bolded values in blue indicate LOQ was above the ADEC Method Two, 'Migration to Groundwater Cleanup Level'.</p> <p>U indicates the analyte was analyzed for but not detected.</p> | | | | | | | | | | | | | | | | | | | |

Table 6: PCB Results

| Analyte | Cleanup Level | TH4-0 | TH4-24 | TH9-0 | TH14-0 | S1 | S5 | S8 | S9 | S10 | S11 | S26* | N3 | N7 | N18 | N19 | N20 | N25 | N26^ |
|--------------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | mg/Kg | | | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 1 | 0.0553U | 0.0534U | 0.0556U | 0.0623U | 0.0709U | 0.0575U | 0.0573U | 0.0547U | 0.0538U | 0.0544U | 0.0622U | 0.0547U | 0.0559U | 0.0534U | 0.0551U | 0.0551U | 0.0541U | 0.0548U |
| Aroclor 1221 | 1 | 0.111U | 0.107U | 0.111U | 0.125U | 0.142U | 0.115U | 0.115U | 0.109U | 0.108U | 0.109U | 0.124U | 0.109U | 0.112U | 0.107U | 0.110U | 0.110U | 0.108U | 0.110U |
| Aroclor 1232 | 1 | 0.0553U | 0.0534U | 0.0556U | 0.0623U | 0.0709U | 0.0575U | 0.0573U | 0.0547U | 0.0538U | 0.0544U | 0.0622U | 0.0547U | 0.0559U | 0.0534U | 0.0551U | 0.0551U | 0.0541U | 0.0548U |
| Aroclor 1242 | 1 | 0.0553U | 0.0534U | 0.0556U | 0.0623U | 0.0709U | 0.0575U | 0.0573U | 0.0547U | 0.0538U | 0.0544U | 0.0622U | 0.0547U | 0.0559U | 0.0534U | 0.0551U | 0.0551U | 0.0541U | 0.0548U |
| Aroclor 1248 | 1 | 0.0553U | 0.0534U | 0.0556U | 0.0623U | 0.0709U | 0.0575U | 0.0573U | 0.0547U | 0.0538U | 0.0544U | 0.0622U | 0.0547U | 0.0559U | 0.0534U | 0.0551U | 0.0551U | 0.0541U | 0.0548U |
| Aroclor 1254 | 1 | 0.0553U | 0.0534U | 0.0556U | 0.0623U | 0.0709U | 0.0575U | 0.0573U | 0.0547U | 0.0538U | 0.0544U | 0.0622U | 0.0547U | 0.0559U | 0.0534U | 0.0551U | 0.0551U | 0.0541U | 0.0548U |
| Aroclor 1260 | 1 | 0.0553U | 0.0534U | 0.0556U | 0.0623U | 0.0709U | 0.0575U | 0.0573U | 0.0547U | 0.0538U | 0.0544U | 0.0622U | 0.0547U | 0.0559U | 0.0534U | 0.0551U | 0.0551U | 0.0541U | 0.0548U |

Notes:
Bolded values in red indicate exceedence of ADEC Method Two, 'Migration to Groundwater Cleanup Level'.
Bolded values in blue indicate LOQ was above the ADEC Method Two, 'Migration to Groundwater Cleanup Level'.
 U indicates the analyte was analyzed for but not detected.
 * indicates the sample is a duplicate of S5
 ^ indicates the sample is a duplicate of N19.

Table 7: RCRA Metals

| Analyte | Cleanup Level | TH4-0 | TH4-24 | TH9-0 | TH14-0 | TH22-24 | TH22-48 | S1 | S5 | S8 | S9 | S10 | S11 | S26 | N3 | N7 | N18 | N19 | N20 | N25 | N26 |
|----------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | mg/Kg | | | | | | | | | | | | | | | | | | | | |
| Arsenic | 0.2 | 8.48 | 10.1 | 18.2 | 8.9 | 5.04 | 6.46 | 9.07 | 8.35 | 11.7 | 11.5 | 14.2 | 8.95 | 11.2 | 6.46 | 9.13 | 6.81 | 10.1 | 12.7 | 10.5 | 9.4 |
| Barium | 2100 | 32.7 | 27.1 | 29.5 | 26.4 | 60 | 81.4 | 23.1 | 19.8 | 27.7 | 24.9 | 37.1 | 22.8 | 24.1 | 17.9 | 23.2 | 19.4 | 30.6 | 30.7 | 30.1 | 32.7 |
| Cadmium | 9.1 | 1.19 | 0.214 U | 0.217 U | 0.367 | 0.301 U | 0.418 U | 0.281 U | 0.229 U | 0.232 U | 0.218 U | 0.301 | 0.216 U | 0.240 U | 0.348 | 0.502 | 0.392 | 0.436 | 0.29 | 0.238 | 0.473 |
| Chromium | 0.089 | 31.2 | 30.9 | 23.9 | 27.3 | 21.2 | 21.4 | 18.6 | 24.8 | 29.4 | 27.6 | 37 | 29.3 | 25.6 | 20.8 | 26.4 | 25.7 | 34.2 | 36.5 | 34 | 35.4 |
| Lead | None Available | 22.9 | 12.7 | 11.5 | 12.1 | 8.01 | 9.42 | 13.7 | 18.6 | 15.8 | 16.5 | 24.8 | 14.3 | 15.1 | 14.4 | 17.8 | 16.8 | 33.1 | 22 | 20 | 31.2 |
| Mercury | 0.36 | 0.323 U | 0.321 U | 0.325 U | 0.339 U | 0.451 U | 0.626 U | 0.422 U | 0.344 U | 0.348 U | 0.327 U | 0.325 U | 0.323 U | 0.360 U | 0.539 | 0.357 | 0.316 U | 0.325 U | 0.318 U | 0.346 | 0.325 U |
| Selenium | 6.9 | 2.15 U | 2.14 U | 2.17 U | 2.26 U | 3.01 U | 4.18 U | 2.81 U | 2.29 U | 2.32 U | 2.18 U | 2.16 U | 2.16 U | 2.40 U | 2.21 U | 2.15 U | 2.10 U | 2.17 U | 2.12 U | 2.16 U | 2.16 U |
| Silver | 11 | 0.538 U | 0.535 U | 0.542 U | 0.564 U | 0.752 U | 1.04 U | 0.703 U | 0.574 U | 0.579 U | 0.544 U | 0.541 U | 0.539 U | 0.600 U | 0.554 U | 0.538 U | 0.526 U | 0.542 U | 0.530 U | 0.539 U | 0.541 U |

Notes:

Bolded values in red indicate exceedence of ADEC Method Two, 'Migration to Groundwater Cleanup Level'.
Bolded values in blue indicate LOQ was above the ADEC Method Two, 'Migration to Groundwater Cleanup Level'.
 U indicates the analyte was analyzed for but not detected.

Table 8: GRO, DRO, & RRO Results (Water)

| Sample ID | GRO | DRO | RRO |
|-----------|-------------|------------|------------|
| | 2,200 µg/Kg | 1,500 µg/L | 1,100 µg/L |
| TH27W1 | 100 U | 577 U | 481 U |
| TH27W2 | 100 U | 577 U | 481 U |

Notes:

Bolded values in red indicate exceedence of ADEC Method Two, 'Migration to Groundwater Cleanup Level'.

Bolded values in blue indicate LOQ was above the ADEC Method Two, 'Migration to Groundwater Cleanup Level'.

U indicates the analyte was analyzed for but not detected.

TABLE 9: VOC RESULTS (Water)

| Analyte | Cleanup Level | TH27W1 | TH27W2 |
|-----------------------------|----------------|---------------|---------------|
| | µg/L | | |
| 1,1,1,2-Tetrachloroethane | 5.7 | 0.500 U | 0.500 U |
| 1,1,1-Trichloroethane | 8,000 | 1.00 U | 1.00 U |
| 1,1,2,2-Tetrachloroethane | 0.76 | 0.500 U | 0.500 U |
| 1,1,2-Trichloroethane | 0.41 | 0.400 U | 0.400 U |
| 1,1-Dichloroethane | 28 | 1.00 U | 1.00 U |
| 1,1-Dichloroethene | None Available | 1.00 U | 1.00 U |
| 1,1-Dichloropropene | None Available | 1.00 U | 1.00 U |
| 1,2,3-Trichlorobenzene | 7.0 | 1.00 U | 1.00 U |
| 1,2,3-Trichloropropane | 0.0075 | 1.00 U | 1.00 U |
| 1,2,4-Trichlorobenzene | 4.0 | 1.00 U | 1.00 U |
| 1,2,4-Trimethylbenzene | 56 | 1.00 U | 1.00 U |
| 1,2-Dibromo-3-chloropropane | None Available | 10.0 U | 10.0 U |
| 1,2-Dibromoethane | 0.075 | 0.0750 U | 0.0750 U |
| 1,2-Dichlorobenzene | 300 | 1.00 U | 1.00 U |
| 1,2-Dichloroethane | 1.7 | 0.500 U | 0.500 U |
| 1,2-Dichloropropane | 8.2 | 1.00 U | 1.00 U |
| 1,3,5-Trimethylbenzene | 60 | 1.00 U | 1.00 U |
| 1,3-Dichlorobenzene | 300 | 1.00 U | 1.00 U |
| 1,3-Dichloropropane | 4.7 | 0.500 U | 0.500 U |
| 1,4-Dichlorobenzene | 4.8 | 0.500 U | 0.500 U |
| 2,2-Dichloropropane | None Available | 1.00 U | 1.00 U |
| 2-Butanone (MEK) | 5,600 | 10.0 U | 10.0 U |
| 2-Chlorotoluene | None Available | 1.00 U | 1.00 U |
| 2-Hexanone | 38 | 10.0 U | 10.0 U |
| 4-Chlorotoluene | None Available | 1.00 U | 1.00 U |
| 4-Isopropyltoluene | None Available | 1.00 U | 1.00 U |
| 4-Methyl-2-pentanone (MIBK) | 6,300 | 10.0 U | 10.0 U |
| Benzene | 4.6 | 0.400 U | 0.400 U |
| Bromobenzene | 62.0 | 1.00 U | 1.00 U |
| Bromochloromethane | None Available | 1.00 U | 1.00 U |
| Bromodichloromethane | 1.3 | 0.500 U | 0.500 U |
| Bromoform | 33 | 1.00 U | 1.00 U |
| Bromomethane | 7.5 | 5.00 U | 5.00 U |
| Carbon disulfide | 810 | 10.0 U | 10.0 U |
| Carbon tetrachloride | 4.6 | 1.00 U | 1.00 U |
| Chlorobenzene | 78 | 0.500 U | 0.500 U |
| Chloroethane | None Available | 1.00 U | 1.00 U |
| Chloroform | 2.2 | 1.00 U | 1.00 U |
| Chloromethane | 190 | 1.00 U | 1.00 U |
| Dibromochloromethane | 8.7 | 0.500 U | 0.500 U |
| Dibromomethane | 8.3 | 1.00 U | 1.00 U |
| Dichlorodifluoromethane | 200 | 1.00 U | 1.00 U |
| Ethylbenzene | 15 | 1.00 U | 1.00 U |
| Freon-113 | NA | 10.0 U | 10.0 U |
| Hexachlorobutadiene | 1.4 | 1.00 U | 1.00 U |
| Isopropylbenzene (Cumene) | 450 | 1.00 U | 1.00 U |
| Methyl-t-butyl ether | 140 | 10.0 U | 10.0 U |
| Methylene chloride | 110 | 10.0 U | 10.0 U |
| Naphthalene | 1.7 | 1.00 U | 1.00 U |
| P & M -Xylene | None Available | 2.00 U | 2.00 U |
| Styrene | 1200 | 1.00 U | 1.00 U |
| Tetrachloroethene | 5.7 | 1.00 U | 1.00 U |
| Toluene | 1100 | 1.00 U | 1.00 U |
| Trichloroethene | 8000 | 1.00 U | 1.00 U |
| Trichlorofluoromethane | 5200 | 1.00 U | 1.00 U |
| Vinyl acetate | 410 | 10.0 U | 10.0 U |
| Vinyl chloride | 0.19 | 0.150 U | 0.150 U |
| Xylenes (total) | 190 | 3.00 U | 3.00 U |
| cis-1,2-Dichloroethene | None Available | 1.00 U | 1.00 U |
| cis-1,3-Dichloropropene | None Available | 0.500 U | 0.500 U |
| n-Butylbenzene | 1000 | 1.00 U | 1.00 U |
| n-Propylbenzene | 660 | 1.00 U | 1.00 U |
| o-Xylene | None Available | 1.00 U | 1.00 U |
| sec-Butylbenzene | 2000 | 1.00 U | 1.00 U |
| tert-Butylbenzene | 690 | 1.00 U | 1.00 U |
| trans-1,2-Dichloroethene | None Available | 1.00 U | 1.00 U |
| trans-1,3-Dichloropropene | None Available | 1.00 U | 1.00 U |

Notes:

Bolded values in red indicate exceedence of ADEC Method Two, 'Migration to Groundwater Cleanup Level'.
Bolded values in blue indicate LOQ was above the ADEC Method Two, 'Migration to Groundwater Cleanup Level'.
 U indicates the analyte was analyzed for but not detected.

Table 10: PAH Results (Water)

| Analyte | Cleanup Level | TH27W1 | TH27W2 |
|--------------------------|---------------|----------|----------|
| | µg/L | | |
| 1-Methylnaphthalene | 11 | 0.0490 U | 0.0481 U |
| 2-Methylnaphthalene | 36 | 0.0490 U | 0.0481 U |
| Acenaphthene | 530 | 0.0490 U | 0.0481 U |
| Acenaphthylene | 260 | 0.0490 U | 0.0481 U |
| Anthracene | 43 | 0.0490 U | 0.0481 U |
| Benzo(a)Anthracene | 0.3 | 0.0490 U | 0.0481 U |
| Benzo[a]pyrene | 0.25 | 0.0196 U | 0.0192 U |
| Benzo[b]Fluoranthene | 2.5 | 0.0490 U | 0.0481 U |
| Benzo[g,h,i]perylene | 0.26 | 0.0490 U | 0.0481 U |
| Benzo[k]fluoranthene | 0.8 | 0.0490 U | 0.0481 U |
| Chrysene | 2 | 0.0490 U | 0.0481 U |
| Dibenzo[a,h]anthracene | 0.25 | 0.0196 U | 0.0192 U |
| Fluoranthene | 260 | 0.0490 U | 0.0481 U |
| Fluorene | 290 | 0.0490 U | 0.0481 U |
| Indeno[1,2,3-c,d] pyrene | 0.19 | 0.0490 U | 0.0481 U |
| Naphthalene | 1.7 | 0.0980 U | 0.0962 U |
| Phenanthrene | 170 | 0.0490 U | 0.0481 U |
| Pyrene | 120 | 0.0490 U | 0.0481 U |

Notes:

Bolded values in red indicate exceedence of ADEC Method Two, 'Migration to Groundwater Cleanup Level'.

Bolded values in blue indicate LOQ was above the ADEC Method Two, 'Migration to Groundwater Cleanup Level'.

U indicates the analyte was analyzed for but not detected.

Table 11: EDB Results (Water)

| Analyte | Cleanup Level | TH27W1 | TH27W2 |
|-------------------|---------------|--------------|--------------|
| | mg/Kg | | |
| 1,2-Dibromoethane | 0.00024 | 0.00000500 U | 0.00000500 U |

Notes:

Bolded values in red indicate exceedence of ADEC Method Two, 'Migration to Groundwater Cleanup Level'.

Bolded values in blue indicate LOQ was above the ADEC Method Two, 'Migration to Groundwater Cleanup Level'.

U indicates the analyte was analyzed for but not detected.

Table 12: PCB Results (Water)

| Analyte | Cleanup Level | TH27W1 | TH27W2* |
|--------------|---------------|---------------|---------------|
| | µg/L | | |
| Aroclor 1016 | 0.44 | 0.105 U | 0.103 U |
| Aroclor 1221 | 0.44 | <i>1.05 U</i> | <i>1.03 U</i> |
| Aroclor 1232 | 0.44 | 0.105 U | 0.103 U |
| Aroclor 1242 | 0.44 | 0.105 U | 0.103 U |
| Aroclor 1248 | 0.44 | 0.105 U | 0.103 U |
| Aroclor 1254 | 0.44 | 0.105 U | 0.103 U |
| Aroclor 1260 | 0.44 | 0.105 U | 0.103 U |

Notes:
U indicates the analyte was analyzed for but not detected.
* indicates the sample is a duplicate of TH27W1

Table 13: RCRA Metals (Water)

| Analyte | Cleanup Level µg/Kg | TH27W1 | TH27W2 |
|----------|------------------------|---------------|---------------|
| Arsenic | 0.52 | 10.0 U | 10.0 U |
| Barium | 3800 | 11 | 11.5 |
| Cadmium | 9.2 | 2.00 U | 2.00 U |
| Chromium | 0.35 | 10.0 U | 10.0 U |
| Lead | 15 | 3.97 | 4.12 |
| Mercury | 0.52 | 0.500 U | 0.500 U |
| Selenium | 100 | 20.0 U | 20.0 U |
| Silver | 94 | 2.00 U | 2.00 U |

Notes:

Bolded values in red indicate exceedence of ADEC Method Two, 'Migration to Groundwater Cleanup Level'.
Bolded values in blue indicate LOQ was above the ADEC Method Two, 'Migration to Groundwater Cleanup Level'.
 U indicates the analyte was analyzed for but not detected.

APPENDIX C:
SGS Laboratory Report and ADEC Data Review Checklist



Laboratory Report of Analysis

To: Travis/Peterson (TPECI)
3305 Arctic Blvd. Suite 102
Anchorage, AK 99503
(907)522-4337

Report Number: **1214357**

Client Project: **Danger Bay**

Dear Casey Volk,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Chuck at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Chuck Homestead
Project Manager
Charles.Homestead@sgs.com

Date



Case Narrative

SGS Client: **Travis/Peterson (TPECI)**

SGS Project: **1214357**

Project Name/Site: **Danger Bay**

Project Contact: **Casey Volk**

Refer to sample receipt form for information on sample condition.

TH4-0 (1214357001) PS

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria, sample analyzed twice and results confirm.

TH14-0 (1214357004) PS

AK102 - Surrogate recovery for 5 α -androstane does not meet QC criteria due to sample dilution.

8082A - Surrogate recovery for decachlorobiphenyl does not meet QC criteria. Sample was re-extracted to confirm results. Re-analysis confirms original results. Original data is reported.

TH15-48 (1214357005) PS

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria, due to matrix interference.

TH15-96 (1214357006) PS

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria, due to matrix interference.

8270D SIM - PAH surrogate recovery for 2-methylnaphthalene-d10 does not meet QC criteria due to sample dilution.

8270D SIM - The PAH LOQs are elevated due to sample dilution. The sample was analyzed at a dilution due to high concentrations of non-target compounds.

TH15-72 (1214357007) PS

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria, due to matrix interference.

8270D SIM - PAH surrogate recovery for 2-methylnaphthalene-d10 does not meet QC criteria due to sample dilution.

8270D SIM - The PAH LOQs are elevated due to sample dilution. The sample was diluted due to high concentrations of non-target compounds.

TH22-24 (1214357009) PS

8270D SIM - The PAH LOQs are elevated due to sample dilution. The sample was analyzed at a dilution due to high concentrations of non-target compounds.

TH22-48 (1214357010) PS

8260D - VOC surrogate recovery for 4-Bromofluorobenzene does not meet QC criteria. Sample analyzed twice, results confirm.

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria, due to matrix interference.

TH21-0 (1214357011) PS

8260D - VOC surrogate recovery for 4-Bromofluorobenzene does not meet QC criteria. Sample analyzed twice, results confirm.

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria, sample analyzed twice and results confirm.

TH23-0 (1214357013) PS

8260D - VOC surrogate recovery for 4-Bromofluorobenzene does not meet QC criteria. Sample analyzed twice, results confirm.

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria, sample analyzed twice and results confirm.

TH24-0 (1214357015) PS

8260D - VOC surrogate recovery for 4-Bromofluorobenzene does not meet QC criteria. Sample analyzed twice, results confirm.

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria, sample analyzed twice and results confirm.

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Case Narrative

SGS Client: **Travis/Peterson (TPECI)**

SGS Project: **1214357**

Project Name/Site: **Danger Bay**

Project Contact: **Casey Volk**

TH24-24 (1214357016) PS

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria, sample analyzed twice and results confirm.

TH25-24 (1214357017) PS

AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to sample matrix.

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria, sample analyzed twice and results confirm.

TH25-96 (1214357019) PS

8270D SIM - The PAH LOQs are elevated due to sample dilution. The sample was analyzed at a dilution due to high concentrations of non-target compounds.

N3 (1214357029) PS

8270D SIM - The PAH LOQs are elevated due to sample dilution. The sample was diluted due to the dark color of the extract.

N7 (1214357030) PS

8270D SIM - The PAH LOQs are elevated due to sample dilution. The sample was diluted due to the dark color of the extract.

N18 (1214357031) PS

8270D SIM - The PAH LOQs are elevated due to sample dilution. The sample was diluted due to the dark color of the extract.

LCS for HBN 1823000 [VXX/37499 (1625715) LCS

8260D - LCS recovery for Trichlorofluoromethane does not meet QC criteria. This analyte was not detected above the LOQ in the associated samples.

LCSD for HBN 1822794 [XXX/4521 (1624825) LCSD

8270D SIM - PAH LCS/LCSD RPD for 1-methylnaphthalene does not meet QC criteria. RPD recovery criteria is met in associated MS/MSD.

MB for HBN 1822794 [XXX/45211] (1624823) MB

8270D SIM - Phenanthrene is detect in the PAH method blank at less than the LOQ.

MB for HBN 1823173 [VXX/37520] (1626444) MB

AK101 - MB GRO recovery does not meet QC criteria, however it is below the LOQ.

1214357001MS (1624284) MS

8082A - PCB Aroclor 1260 MS recovery does not meet QC criteria. Refer to the LCS for accuracy requirements.

1214357003(1625014MS) (1625015) MS

8260D - MS recovery for Trichlorofluoromethane does not meet QC criteria. See LCS for accuracy requirements.

1214357033MS (1625118) MS

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Case Narrative

SGS Client: **Travis/Peterson (TPECI)**

SGS Project: **1214357**

Project Name/Site: **Danger Bay**

Project Contact: **Casey Volk**

6020B- MS recoveries for mercury and barium do not meet the QC criteria. The post digestion spike was successful.

1214357027(1625716MS) (1625717) MS

8260D - MS recovery for Trichlorofluoromethane does not meet QC criteria. This analyte was not detected above the LOQ in the PS.

1214357001MSD (1624285) MSD

8082A - PCB Aroclor 1260 MSD recovery does not meet QC criteria. Refer to the LCS for accuracy requirements.

1214357003(1625014MSD) (1625016) MSD

8260D - MSD recovery for Trichlorofluoromethane does not meet QC criteria. See LCS for accuracy requirements.

1214357033MSD (1625119) MSD

6020B- MSD recoveries for mercury and barium do not meet the QC criteria. The post digestion spike was successful.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Report of Manual Integrations

| <u>Laboratory ID</u> | <u>Client Sample ID</u> | <u>Analytical Batch</u> | <u>Analyte</u> | <u>Reason</u> |
|---------------------------|---------------------------------|-------------------------|----------------------|---------------|
| 8270D SIM (PAH) | | | | |
| 1626570 | 1214350001MS | XMS12785 | Benzo[g,h,i]perylene | RP |
| 1626571 | 1214350001MSD | XMS12785 | Benzo[b]Fluoranthene | BLC |
| 1626571 | 1214350001MSD | XMS12785 | Benzo[g,h,i]perylene | RP |
| 1626571 | 1214350001MSD | XMS12785 | Benzo[k]fluoranthene | RP |
| 8270D SIM LV (PAH) | | | | |
| 1624827 | 1214324002MSD | XMS12769 | Benzo[b]Fluoranthene | RP |
| SW8082A | | | | |
| 1625062 | CCV for HBN 1822845 (XGC/10937) | XGC10937 | Aroclor-1260 | BLC |
| 1625149 | CCV for HBN 1822864 (XGC/10939) | XGC10939 | Aroclor-1260 | SP |
| 1625150 | CCV for HBN 1822864 (XGC/10939) | XGC10939 | Aroclor-1260 | SP |
| SW8260D | | | | |
| 1214357005 | TH15-48 | VMS20954 | 4-Isopropyltoluene | SP |
| 1214357006 | TH15-96 | VMS20954 | 4-Isopropyltoluene | SP |
| 1214357006 | TH15-96 | VMS20962 | Naphthalene | RP |
| 1214357007 | TH15-72 | VMS20954 | 4-Isopropyltoluene | SP |
| 1214357007 | TH15-72 | VMS20954 | Naphthalene | RP |

Manual Integration Reason Code Descriptions

| Code | Description |
|------|------------------------------|
| O | Original Chromatogram |
| M | Modified Chromatogram |
| SS | Skimmed surrogate |
| BLG | Closed baseline gap |
| RP | Reassign peak name |
| PIR | Pattern integration required |
| IT | Included tail |
| SP | Split peak |
| RSP | Removed split peak |
| FPS | Forced peak start/stop |
| BLC | Baseline correction |
| PNF | Peak not found by software |

All DRO/RRO analysis are integrated per SOP.

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

| | |
|--------------------|---|
| * | The analyte has exceeded allowable regulatory or control limits. |
| ! | Surrogate out of control limits. |
| B | Indicates the analyte is found in a blank associated with the sample. |
| CCV/CVA/CVB | Continuing Calibration Verification |
| CCCV/CVC/CVCA/CVCB | Closing Continuing Calibration Verification |
| CL | Control Limit |
| DF | Analytical Dilution Factor |
| DL | Detection Limit (i.e., maximum method detection limit) |
| E | The analyte result is above the calibrated range. |
| GT | Greater Than |
| IB | Instrument Blank |
| ICV | Initial Calibration Verification |
| J | The quantitation is an estimation. |
| LCS(D) | Laboratory Control Spike (Duplicate) |
| LLQC/LLIQC | Low Level Quantitation Check |
| LOD | Limit of Detection (i.e., 1/2 of the LOQ) |
| LOQ | Limit of Quantitation (i.e., reporting or practical quantitation limit) |
| LT | Less Than |
| MB | Method Blank |
| MS(D) | Matrix Spike (Duplicate) |
| ND | Indicates the analyte is not detected. |
| RPD | Relative Percent Difference |
| TNTC | Too Numerous To Count |
| U | Indicates the analyte was analyzed for but not detected. |

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.



Sample Summary

| <u>Client Sample ID</u> | <u>Lab Sample ID</u> | <u>Collected</u> | <u>Received</u> | <u>Matrix</u> |
|-------------------------|----------------------|------------------|-----------------|-------------------------------|
| TH4-0 | 1214357001 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH4-24 | 1214357002 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH9-0 | 1214357003 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH14-0 | 1214357004 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH15-48 | 1214357005 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH15-96 | 1214357006 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH15-72 | 1214357007 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH16-36 | 1214357008 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH22-24 | 1214357009 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH22-48 | 1214357010 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH21-0 | 1214357011 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH21-16 | 1214357012 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH23-0 | 1214357013 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH24-16 | 1214357014 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH24-0 | 1214357015 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH24-24 | 1214357016 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH25-24 | 1214357017 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH25-36 | 1214357018 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH25-96 | 1214357019 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH27-0 | 1214357020 | 07/14/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH27-24 | 1214357021 | 07/14/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| S1 | 1214357022 | 07/15/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| S5 | 1214357023 | 07/15/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| S8 | 1214357024 | 07/15/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| S9 | 1214357025 | 07/15/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| S10 | 1214357026 | 07/15/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| S11 | 1214357027 | 07/15/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| S26 | 1214357028 | 07/15/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| N3 | 1214357029 | 07/15/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| N7 | 1214357030 | 07/15/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| N18 | 1214357031 | 07/15/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| N19 | 1214357032 | 07/15/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| N20 | 1214357033 | 07/15/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| N25 | 1214357034 | 07/15/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| N26 | 1214357035 | 07/15/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| TH27W1 | 1214357036 | 07/15/2021 | 07/16/2021 | Water (Surface, Eff., Ground) |
| TH27W2 | 1214357037 | 07/15/2021 | 07/16/2021 | Water (Surface, Eff., Ground) |
| Trip Blank | 1214357038 | 07/13/2021 | 07/16/2021 | Water (Surface, Eff., Ground) |
| Trip Blank (s) 1 | 1214357039 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |

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Sample Summary

| <u>Client Sample ID</u> | <u>Lab Sample ID</u> | <u>Collected</u> | <u>Received</u> | <u>Matrix</u> |
|-------------------------|----------------------|------------------|-----------------|-------------------------|
| Trip Blank (s) 2 | 1214357040 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |
| Trip Blank (s) 3 | 1214357041 | 07/13/2021 | 07/16/2021 | Soil/Solid (dry weight) |

| <u>Method</u> | <u>Method Description</u> |
|--------------------|-------------------------------------|
| 8270D SIM LV (PAH) | 8270 PAH SIM GC/MS LV |
| 8270D SIM (PAH) | 8270 PAH SIM Semi-Volatiles GC/MS |
| AK103 | Diesel/Residual Range Organics |
| AK102 | Diesel/Residual Range Organics |
| AK103 | DRO/RRO Low Volume Water |
| AK102 | DRO/RRO Low Volume Water |
| AK101 | Gasoline Range Organics (S) |
| AK101 | Gasoline Range Organics (W) |
| SW6020B | Metals by ICP-MS |
| SW6020B | Metals by ICP-MS (S) |
| SM21 2540G | Percent Solids SM2540G |
| SW8082A | SW8082 PCB's |
| SW8260D-SIM | SW8260-SIM (S) |
| SW8260D-SIM | SW8260-SIM (W) |
| SW8260D | VOC 8260 (S) Field Extracted |
| SW8260D | Volatile Organic Compounds (W) FULL |

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Detectable Results Summary

Client Sample ID: **TH4-0**
Lab Sample ID: 1214357001

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Arsenic | 8.48 | mg/kg |
| Barium | 32.7 | mg/kg |
| Cadmium | 1.19 | mg/kg |
| Chromium | 31.2 | mg/kg |
| Lead | 22.9 | mg/kg |

Semivolatile Organic Fuels

| | | |
|-------------------------|------|-------|
| Diesel Range Organics | 984 | mg/kg |
| Residual Range Organics | 4760 | mg/kg |

Client Sample ID: **TH4-24**
Lab Sample ID: 1214357002

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Arsenic | 10.1 | mg/kg |
| Barium | 27.1 | mg/kg |
| Chromium | 30.9 | mg/kg |
| Lead | 12.7 | mg/kg |

Client Sample ID: **TH9-0**
Lab Sample ID: 1214357003

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Arsenic | 18.2 | mg/kg |
| Barium | 29.5 | mg/kg |
| Chromium | 23.9 | mg/kg |
| Lead | 11.5 | mg/kg |

Semivolatile Organic Fuels

| | | |
|-------------------------|------|-------|
| Diesel Range Organics | 50.5 | mg/kg |
| Residual Range Organics | 314 | mg/kg |

Client Sample ID: **TH14-0**
Lab Sample ID: 1214357004

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Arsenic | 8.90 | mg/kg |
| Barium | 26.4 | mg/kg |
| Cadmium | 0.367 | mg/kg |
| Chromium | 27.3 | mg/kg |
| Lead | 12.1 | mg/kg |

Semivolatile Organic Fuels

| | | |
|-------------------------|-------|-------|
| Diesel Range Organics | 4520 | mg/kg |
| Residual Range Organics | 16200 | mg/kg |

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Detectable Results Summary

Client Sample ID: **TH15-48**

Lab Sample ID: 1214357005

Semivolatile Organic Fuels

Volatile Fuels

Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|---------------------------|---------------|--------------|
| Diesel Range Organics | 109 | mg/kg |
| Residual Range Organics | 223 | mg/kg |
| Gasoline Range Organics | 36.9 | mg/kg |
| 1,2,4-Trimethylbenzene | 6880 | ug/kg |
| 1,3,5-Trimethylbenzene | 2480 | ug/kg |
| Ethylbenzene | 161 | ug/kg |
| Isopropylbenzene (Cumene) | 858 | ug/kg |
| Naphthalene | 2820 | ug/kg |
| n-Propylbenzene | 1950 | ug/kg |
| o-Xylene | 562 | ug/kg |
| P & M -Xylene | 4520 | ug/kg |
| sec-Butylbenzene | 603 | ug/kg |
| Xylenes (total) | 5080 | ug/kg |

Client Sample ID: **TH15-96**

Lab Sample ID: 1214357006

Polynuclear Aromatics GC/MS

Semivolatile Organic Fuels

Volatile Fuels

Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| 1-Methylnaphthalene | 820 | ug/kg |
| 2-Methylnaphthalene | 973 | ug/kg |
| Phenanthrene | 263 | ug/kg |
| Diesel Range Organics | 1910 | mg/kg |
| Gasoline Range Organics | 31.9 | mg/kg |
| 1,2,4-Trimethylbenzene | 295 | ug/kg |
| 4-Isopropyltoluene | 431 | ug/kg |
| Naphthalene | 134 | ug/kg |
| n-Propylbenzene | 314 | ug/kg |
| sec-Butylbenzene | 758 | ug/kg |

Client Sample ID: **TH15-72**

Lab Sample ID: 1214357007

Polynuclear Aromatics GC/MS

Semivolatile Organic Fuels

Volatile Fuels

Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| 1-Methylnaphthalene | 527 | ug/kg |
| 2-Methylnaphthalene | 599 | ug/kg |
| Fluorene | 219 | ug/kg |
| Phenanthrene | 215 | ug/kg |
| Diesel Range Organics | 2370 | mg/kg |
| Gasoline Range Organics | 72.4 | mg/kg |
| 1,2,4-Trimethylbenzene | 281 | ug/kg |
| 4-Isopropyltoluene | 573 | ug/kg |
| Naphthalene | 205 | ug/kg |
| n-Propylbenzene | 339 | ug/kg |
| sec-Butylbenzene | 1010 | ug/kg |

Print Date: 08/13/2021 2:31:57PM



Detectable Results Summary

Client Sample ID: **TH22-24**
Lab Sample ID: 1214357009

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Arsenic | 5.04 | mg/kg |
| Barium | 60.0 | mg/kg |
| Chromium | 21.2 | mg/kg |
| Lead | 8.01 | mg/kg |

Semivolatile Organic Fuels

| | | |
|-------------------------|------|-------|
| Diesel Range Organics | 1860 | mg/kg |
| Residual Range Organics | 6060 | mg/kg |

Volatile Fuels

Volatile GC/MS

| | | |
|-------------------------|-------|-------|
| Gasoline Range Organics | 8.00 | mg/kg |
| 4-Isopropyltoluene | 19100 | ug/kg |
| Acetone | 1370 | ug/kg |
| Ethylbenzene | 132 | ug/kg |
| n-Propylbenzene | 215 | ug/kg |
| Toluene | 418 | ug/kg |

Client Sample ID: **TH22-48**
Lab Sample ID: 1214357010

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Arsenic | 6.46 | mg/kg |
| Barium | 81.4 | mg/kg |
| Chromium | 21.4 | mg/kg |
| Lead | 9.42 | mg/kg |

Semivolatile Organic Fuels

| | | |
|-------------------------|------|-------|
| Diesel Range Organics | 3460 | mg/kg |
| Residual Range Organics | 7470 | mg/kg |

Volatile Fuels

Volatile GC/MS

| | | |
|-------------------------|------|-------|
| Gasoline Range Organics | 35.2 | mg/kg |
| 4-Isopropyltoluene | 3500 | ug/kg |
| Toluene | 135 | ug/kg |

Client Sample ID: **TH21-0**
Lab Sample ID: 1214357011

Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Diesel Range Organics | 85.7 | mg/kg |
| Residual Range Organics | 343 | mg/kg |
| 4-Isopropyltoluene | 135 | ug/kg |

Volatile GC/MS

Client Sample ID: **TH21-16**
Lab Sample ID: 1214357012

Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Diesel Range Organics | 71.4 | mg/kg |
| Residual Range Organics | 317 | mg/kg |
| 4-Isopropyltoluene | 421 | ug/kg |
| Toluene | 41.8 | ug/kg |

Volatile GC/MS

Client Sample ID: **TH23-0**
Lab Sample ID: 1214357013

Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Diesel Range Organics | 2420 | mg/kg |
| Residual Range Organics | 4210 | mg/kg |
| Toluene | 377 | ug/kg |

Volatile GC/MS

Print Date: 08/13/2021 2:31:57PM

Detectable Results Summary

Client Sample ID: **TH24-16**
 Lab Sample ID: 1214357014
Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Diesel Range Organics | 78.5 | mg/kg |
| Residual Range Organics | 273 | mg/kg |
| 4-Isopropyltoluene | 473 | ug/kg |

Volatile GC/MS

Client Sample ID: **TH24-0**
 Lab Sample ID: 1214357015
Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Diesel Range Organics | 226 | mg/kg |
| Residual Range Organics | 728 | mg/kg |
| 4-Isopropyltoluene | 237 | ug/kg |

Volatile GC/MS

Client Sample ID: **TH24-24**
 Lab Sample ID: 1214357016
Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Diesel Range Organics | 271 | mg/kg |
| Residual Range Organics | 1050 | mg/kg |
| 4-Isopropyltoluene | 454 | ug/kg |
| Acetone | 330 | ug/kg |

Volatile GC/MS

Client Sample ID: **TH25-24**
 Lab Sample ID: 1214357017
Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Diesel Range Organics | 5930 | mg/kg |
| Residual Range Organics | 8060 | mg/kg |
| Benzene | 159 | ug/kg |
| o-Xylene | 174 | ug/kg |
| P & M -Xylene | 145 | ug/kg |
| Toluene | 91.1 | ug/kg |
| Xylenes (total) | 319 | ug/kg |

Volatile GC/MS

Client Sample ID: **TH25-36**
 Lab Sample ID: 1214357018
Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| 1-Methylnaphthalene | 51.5 | ug/kg |
| 2-Methylnaphthalene | 36.1 | ug/kg |
| Fluorene | 62.8 | ug/kg |
| Phenanthrene | 61.4 | ug/kg |
| Diesel Range Organics | 1120 | mg/kg |
| Residual Range Organics | 2380 | mg/kg |
| Benzene | 389 | ug/kg |
| Ethylbenzene | 103 | ug/kg |
| P & M -Xylene | 219 | ug/kg |
| Xylenes (total) | 237 | ug/kg |

Semivolatile Organic Fuels

Volatile GC/MS



Detectable Results Summary

Client Sample ID: **TH25-96**

Lab Sample ID: 1214357019

Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Fluorene | 78.1 | ug/kg |
| Phenanthrene | 88.6 | ug/kg |
| Diesel Range Organics | 1430 | mg/kg |
| Residual Range Organics | 2110 | mg/kg |

Semivolatile Organic Fuels

Volatile GC/MS

| | | |
|-----------------|-----|-------|
| Benzene | 500 | ug/kg |
| Ethylbenzene | 114 | ug/kg |
| P & M -Xylene | 255 | ug/kg |
| Xylenes (total) | 280 | ug/kg |

Client Sample ID: **TH27-24**

Lab Sample ID: 1214357021

Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-----------------------|---------------|--------------|
| Diesel Range Organics | 252 | mg/kg |

Client Sample ID: **S1**

Lab Sample ID: 1214357022

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Arsenic | 9.07 | mg/kg |
| Barium | 23.1 | mg/kg |
| Chromium | 18.6 | mg/kg |
| Lead | 13.7 | mg/kg |
| Diesel Range Organics | 60.2 | mg/kg |
| Residual Range Organics | 216 | mg/kg |

Semivolatile Organic Fuels

Client Sample ID: **S5**

Lab Sample ID: 1214357023

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Arsenic | 8.35 | mg/kg |
| Barium | 19.8 | mg/kg |
| Chromium | 24.8 | mg/kg |
| Lead | 18.6 | mg/kg |
| Diesel Range Organics | 89.3 | mg/kg |
| Residual Range Organics | 225 | mg/kg |

Semivolatile Organic Fuels

Client Sample ID: **S8**

Lab Sample ID: 1214357024

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Arsenic | 11.7 | mg/kg |
| Barium | 27.7 | mg/kg |
| Chromium | 29.4 | mg/kg |
| Lead | 15.8 | mg/kg |
| Diesel Range Organics | 41.6 | mg/kg |
| Residual Range Organics | 159 | mg/kg |

Semivolatile Organic Fuels

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SGS North America Inc.

200 West Potter Drive, Anchorage, AK 99518
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Member of SGS Group

Detectable Results Summary

Client Sample ID: **S9**
 Lab Sample ID: 1214357025
Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Arsenic | 11.5 | mg/kg |
| Barium | 24.9 | mg/kg |
| Chromium | 27.6 | mg/kg |
| Lead | 16.5 | mg/kg |
| Diesel Range Organics | 320 | mg/kg |
| Residual Range Organics | 205 | mg/kg |

Client Sample ID: **S10**
 Lab Sample ID: 1214357026
Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Arsenic | 14.2 | mg/kg |
| Barium | 37.1 | mg/kg |
| Cadmium | 0.301 | mg/kg |
| Chromium | 37.0 | mg/kg |
| Lead | 24.8 | mg/kg |
| Diesel Range Organics | 218 | mg/kg |
| Residual Range Organics | 651 | mg/kg |
| Benzene | 12.2 | ug/kg |

Semivolatile Organic Fuels

Volatile GC/MS

Client Sample ID: **S11**
 Lab Sample ID: 1214357027
Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-----------------------|---------------|--------------|
| Arsenic | 8.95 | mg/kg |
| Barium | 22.8 | mg/kg |
| Chromium | 29.3 | mg/kg |
| Lead | 14.3 | mg/kg |
| Diesel Range Organics | 25.0 | mg/kg |
| Toluene | 40.4 | ug/kg |

Semivolatile Organic Fuels

Volatile GC/MS

Client Sample ID: **S26**
 Lab Sample ID: 1214357028
Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Arsenic | 11.2 | mg/kg |
| Barium | 24.1 | mg/kg |
| Chromium | 25.6 | mg/kg |
| Lead | 15.1 | mg/kg |
| Diesel Range Organics | 55.4 | mg/kg |
| Residual Range Organics | 214 | mg/kg |

Semivolatile Organic Fuels



Detectable Results Summary

Client Sample ID: **N3**
Lab Sample ID: 1214357029

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Arsenic | 6.46 | mg/kg |
| Barium | 17.9 | mg/kg |
| Cadmium | 0.348 | mg/kg |
| Chromium | 20.8 | mg/kg |
| Lead | 14.4 | mg/kg |
| Mercury | 0.539 | mg/kg |

Semivolatile Organic Fuels

| | | |
|-------------------------|------|-------|
| Diesel Range Organics | 562 | mg/kg |
| Residual Range Organics | 1420 | mg/kg |

Volatile GC/MS

| | | |
|------------------------|------|-------|
| cis-1,2-Dichloroethene | 41.6 | ug/kg |
| Tetrachloroethene | 13.1 | ug/kg |

Client Sample ID: **N7**
Lab Sample ID: 1214357030

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Arsenic | 9.13 | mg/kg |
| Barium | 23.2 | mg/kg |
| Cadmium | 0.502 | mg/kg |
| Chromium | 26.4 | mg/kg |
| Lead | 17.8 | mg/kg |
| Mercury | 0.357 | mg/kg |

Semivolatile Organic Fuels

| | | |
|-----------------------|-----|-------|
| Diesel Range Organics | 590 | mg/kg |
|-----------------------|-----|-------|

Volatile GC/MS

| | | |
|-------------|------|-------|
| Naphthalene | 38.2 | ug/kg |
|-------------|------|-------|

Client Sample ID: **N18**
Lab Sample ID: 1214357031

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Arsenic | 6.81 | mg/kg |
| Barium | 19.4 | mg/kg |
| Cadmium | 0.392 | mg/kg |
| Chromium | 25.7 | mg/kg |
| Lead | 16.8 | mg/kg |

Semivolatile Organic Fuels

| | | |
|-------------------------|------|-------|
| Diesel Range Organics | 1830 | mg/kg |
| Residual Range Organics | 2130 | mg/kg |

Client Sample ID: **N19**
Lab Sample ID: 1214357032

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Arsenic | 10.1 | mg/kg |
| Barium | 30.6 | mg/kg |
| Cadmium | 0.436 | mg/kg |
| Chromium | 34.2 | mg/kg |
| Lead | 33.1 | mg/kg |

Polynuclear Aromatics GC/MS

| | | |
|---------------------|------|-------|
| 2-Methylnaphthalene | 37.5 | ug/kg |
| Phenanthrene | 36.1 | ug/kg |

Semivolatile Organic Fuels

| | | |
|-------------------------|------|-------|
| Diesel Range Organics | 733 | mg/kg |
| Residual Range Organics | 1360 | mg/kg |

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Detectable Results Summary

Client Sample ID: **N20**
Lab Sample ID: 1214357033

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Arsenic | 12.7 | mg/kg |
| Barium | 30.7 | mg/kg |
| Cadmium | 0.290 | mg/kg |
| Chromium | 36.5 | mg/kg |
| Lead | 22.0 | mg/kg |

Semivolatile Organic Fuels

| | | |
|-------------------------|-----|-------|
| Diesel Range Organics | 120 | mg/kg |
| Residual Range Organics | 764 | mg/kg |

Client Sample ID: **N25**
Lab Sample ID: 1214357034

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Arsenic | 10.5 | mg/kg |
| Barium | 30.1 | mg/kg |
| Cadmium | 0.238 | mg/kg |
| Chromium | 34.0 | mg/kg |
| Lead | 20.0 | mg/kg |
| Mercury | 0.346 | mg/kg |

Semivolatile Organic Fuels

| | | |
|-------------------------|------|-------|
| Diesel Range Organics | 68.6 | mg/kg |
| Residual Range Organics | 282 | mg/kg |

Client Sample ID: **N26**
Lab Sample ID: 1214357035

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Arsenic | 9.40 | mg/kg |
| Barium | 32.7 | mg/kg |
| Cadmium | 0.473 | mg/kg |
| Chromium | 35.4 | mg/kg |
| Lead | 31.2 | mg/kg |

Polynuclear Aromatics GC/MS

| | | |
|---------------------|------|-------|
| 2-Methylnaphthalene | 37.9 | ug/kg |
| Phenanthrene | 38.1 | ug/kg |

Semivolatile Organic Fuels

| | | |
|-------------------------|------|-------|
| Diesel Range Organics | 836 | mg/kg |
| Residual Range Organics | 1560 | mg/kg |

Client Sample ID: **TH27W1**
Lab Sample ID: 1214357036

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Barium | 11.0 | ug/L |
| Lead | 3.97 | ug/L |

Client Sample ID: **TH27W2**
Lab Sample ID: 1214357037

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Barium | 11.5 | ug/L |
| Lead | 4.12 | ug/L |



Results of TH4-0

Client Sample ID: **TH4-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357001
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 8.48 | 1.08 | 0.333 | mg/kg | 10 | | 07/27/21 23:21 |
| Barium | 32.7 | 0.323 | 0.101 | mg/kg | 10 | | 07/27/21 23:21 |
| Cadmium | 1.19 | 0.215 | 0.0667 | mg/kg | 10 | | 07/27/21 23:21 |
| Chromium | 31.2 | 1.08 | 0.333 | mg/kg | 10 | | 07/27/21 23:21 |
| Lead | 22.9 | 0.215 | 0.0667 | mg/kg | 10 | | 07/27/21 23:21 |
| Mercury | 0.323 U | 0.323 | 0.108 | mg/kg | 10 | | 07/27/21 23:21 |
| Selenium | 2.15 U | 2.15 | 0.667 | mg/kg | 10 | | 07/27/21 23:21 |
| Silver | 0.538 U | 0.538 | 0.161 | mg/kg | 10 | | 07/27/21 23:21 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/27/21 23:21
Container ID: 1214357001-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.028 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH4-0

Client Sample ID: **TH4-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357001
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 55.3 U | 55.3 | 13.8 | ug/kg | 1 | | 07/20/21 21:31 |
| Aroclor-1221 | 111 U | 111 | 27.6 | ug/kg | 1 | | 07/20/21 21:31 |
| Aroclor-1232 | 55.3 U | 55.3 | 13.8 | ug/kg | 1 | | 07/20/21 21:31 |
| Aroclor-1242 | 55.3 U | 55.3 | 13.8 | ug/kg | 1 | | 07/20/21 21:31 |
| Aroclor-1248 | 55.3 U | 55.3 | 13.8 | ug/kg | 1 | | 07/20/21 21:31 |
| Aroclor-1254 | 55.3 U | 55.3 | 13.8 | ug/kg | 1 | | 07/20/21 21:31 |
| Aroclor-1260 | 55.3 U | 55.3 | 13.8 | ug/kg | 1 | | 07/20/21 21:31 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 60 | 60-125 | | % | 1 | | 07/20/21 21:31 |

Batch Information

Analytical Batch: XGC10936
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/20/21 21:31
Container ID: 1214357001-A

Prep Batch: XXX45197
Prep Method: SW3550C
Prep Date/Time: 07/20/21 12:02
Prep Initial Wt./Vol.: 22.509 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH4-0

Client Sample ID: TH4-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357001
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Semivolatile Organic Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Diesel Range Organics and Surrogates (5a Androstane).

Batch Information

Analytical Batch: XFC16010
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/20/21 22:19
Container ID: 1214357001-A

Prep Batch: XXX45198
Prep Method: SW3550C
Prep Date/Time: 07/20/21 14:26
Prep Initial Wt./Vol.: 30.431 g
Prep Extract Vol: 5 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Residual Range Organics and Surrogates (n-Triacontane-d62).

Batch Information

Analytical Batch: XFC16012
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 22:10
Container ID: 1214357001-A

Prep Batch: XXX45198
Prep Method: SW3550C
Prep Date/Time: 07/20/21 14:26
Prep Initial Wt./Vol.: 30.431 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH4-0

Client Sample ID: **TH4-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357001
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.26 U | 2.26 | 0.679 | mg/kg | 1 | | 07/28/21 21:13 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 48 * | 50-150 | | % | 1 | | 07/28/21 21:13 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 21:13
Container ID: 1214357001-C

Prep Batch: VXX37520
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:00
Prep Initial Wt./Vol.: 79.678 g
Prep Extract Vol: 32.6222 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH4-0

Client Sample ID: **TH4-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357001
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 18.1 U | 18.1 | 5.61 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,1,1-Trichloroethane | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,1,2,2-Tetrachloroethane | 1.81 U | 1.81 | 0.561 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,1,2-Trichloroethane | 0.724 U | 0.724 | 0.226 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,1-Dichloroethane | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,1-Dichloroethene | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,1-Dichloropropene | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,2,3-Trichlorobenzene | 45.3 U | 45.3 | 13.6 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,2,3-Trichloropropane | 1.81 U | 1.81 | 0.561 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,2,4-Trichlorobenzene | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,2,4-Trimethylbenzene | 45.3 U | 45.3 | 13.6 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,2-Dibromo-3-chloropropane | 90.5 U | 90.5 | 28.1 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,2-Dibromoethane | 0.905 U | 0.905 | 0.362 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,2-Dichlorobenzene | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,2-Dichloroethane | 1.81 U | 1.81 | 0.634 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,2-Dichloropropane | 9.05 U | 9.05 | 2.81 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,3,5-Trimethylbenzene | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,3-Dichlorobenzene | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,3-Dichloropropane | 9.05 U | 9.05 | 2.81 | ug/kg | 1 | | 07/22/21 13:47 |
| 1,4-Dichlorobenzene | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| 2,2-Dichloropropane | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| 2-Butanone (MEK) | 226 U | 226 | 70.6 | ug/kg | 1 | | 07/22/21 13:47 |
| 2-Chlorotoluene | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| 2-Hexanone | 90.5 U | 90.5 | 28.1 | ug/kg | 1 | | 07/22/21 13:47 |
| 4-Chlorotoluene | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| 4-Isopropyltoluene | 90.5 U | 90.5 | 22.6 | ug/kg | 1 | | 07/22/21 13:47 |
| 4-Methyl-2-pentanone (MIBK) | 226 U | 226 | 70.6 | ug/kg | 1 | | 07/22/21 13:47 |
| Acetone | 226 U | 226 | 70.6 | ug/kg | 1 | | 07/22/21 13:47 |
| Benzene | 11.3 U | 11.3 | 3.53 | ug/kg | 1 | | 07/22/21 13:47 |
| Bromobenzene | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| Bromochloromethane | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| Bromodichloromethane | 1.81 U | 1.81 | 0.561 | ug/kg | 1 | | 07/22/21 13:47 |
| Bromoform | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |
| Bromomethane | 18.1 U | 18.1 | 5.61 | ug/kg | 1 | | 07/22/21 13:47 |
| Carbon disulfide | 90.5 U | 90.5 | 28.1 | ug/kg | 1 | | 07/22/21 13:47 |
| Carbon tetrachloride | 11.3 U | 11.3 | 3.53 | ug/kg | 1 | | 07/22/21 13:47 |
| Chlorobenzene | 22.6 U | 22.6 | 7.06 | ug/kg | 1 | | 07/22/21 13:47 |

Print Date: 08/13/2021 2:31:59PM



Results of TH4-0

Client Sample ID: TH4-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357001
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

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Results of TH4-0

Client Sample ID: **TH4-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357001
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 13:47
Container ID: 1214357001-C

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:00
Prep Initial Wt./Vol.: 79.678 g
Prep Extract Vol: 32.6222 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH4-0

Client Sample ID: **TH4-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357001
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.113 U | 0.113 | 0.0281 | ug/kg | 1 | | 07/26/21 21:44 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 75.4 | 55-151 | | % | 1 | | 07/26/21 21:44 |
| Toluene-d8 (surr) | 100 | 85-116 | | % | 1 | | 07/26/21 21:44 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/26/21 21:44
Container ID: 1214357001-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:00
Prep Initial Wt./Vol.: 79.678 g
Prep Extract Vol: 32.6222 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH4-24

Client Sample ID: **TH4-24**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357002
Lab Project ID: 1214357

Collection Date: 07/13/21 10:10
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.8
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 10.1 | 1.07 | 0.331 | mg/kg | 10 | | 07/27/21 23:26 |
| Barium | 27.1 | 0.321 | 0.101 | mg/kg | 10 | | 07/27/21 23:26 |
| Cadmium | 0.214 U | 0.214 | 0.0663 | mg/kg | 10 | | 07/27/21 23:26 |
| Chromium | 30.9 | 1.07 | 0.331 | mg/kg | 10 | | 07/27/21 23:26 |
| Lead | 12.7 | 0.214 | 0.0663 | mg/kg | 10 | | 07/27/21 23:26 |
| Mercury | 0.321 U | 0.321 | 0.107 | mg/kg | 10 | | 07/27/21 23:26 |
| Selenium | 2.14 U | 2.14 | 0.663 | mg/kg | 10 | | 07/27/21 23:26 |
| Silver | 0.535 U | 0.535 | 0.160 | mg/kg | 10 | | 07/27/21 23:26 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/27/21 23:26
Container ID: 1214357002-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.008 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH4-24

Client Sample ID: **TH4-24**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357002
Lab Project ID: 1214357

Collection Date: 07/13/21 10:10
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.8
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 53.4 U | 53.4 | 13.4 | ug/kg | 1 | | 07/20/21 22:02 |
| Aroclor-1221 | 107 U | 107 | 26.7 | ug/kg | 1 | | 07/20/21 22:02 |
| Aroclor-1232 | 53.4 U | 53.4 | 13.4 | ug/kg | 1 | | 07/20/21 22:02 |
| Aroclor-1242 | 53.4 U | 53.4 | 13.4 | ug/kg | 1 | | 07/20/21 22:02 |
| Aroclor-1248 | 53.4 U | 53.4 | 13.4 | ug/kg | 1 | | 07/20/21 22:02 |
| Aroclor-1254 | 53.4 U | 53.4 | 13.4 | ug/kg | 1 | | 07/20/21 22:02 |
| Aroclor-1260 | 53.4 U | 53.4 | 13.4 | ug/kg | 1 | | 07/20/21 22:02 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 80 | 60-125 | | % | 1 | | 07/20/21 22:02 |

Batch Information

Analytical Batch: XGC10936
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/20/21 22:02
Container ID: 1214357002-A

Prep Batch: XXX45197
Prep Method: SW3550C
Prep Date/Time: 07/20/21 12:02
Prep Initial Wt./Vol.: 22.704 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH4-24

Client Sample ID: TH4-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357002
Lab Project ID: 1214357

Collection Date: 07/13/21 10:10
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.8
Location:

Results by Semivolatile Organic Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Diesel Range Organics and Surrogates (5a Androstane).

Batch Information

Analytical Batch: XFC16010
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/20/21 22:29
Container ID: 1214357002-A

Prep Batch: XXX45198
Prep Method: SW3550C
Prep Date/Time: 07/20/21 14:26
Prep Initial Wt./Vol.: 30.013 g
Prep Extract Vol: 5 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Residual Range Organics and Surrogates (n-Triacontane-d62).

Batch Information

Analytical Batch: XFC16010
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/20/21 22:29
Container ID: 1214357002-A

Prep Batch: XXX45198
Prep Method: SW3550C
Prep Date/Time: 07/20/21 14:26
Prep Initial Wt./Vol.: 30.013 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH4-24

Client Sample ID: **TH4-24**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357002
Lab Project ID: 1214357

Collection Date: 07/13/21 10:10
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.8
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.44 U | 2.44 | 0.733 | mg/kg | 1 | | 07/28/21 21:31 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 57.9 | 50-150 | | % | 1 | | 07/28/21 21:31 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 21:31
Container ID: 1214357002-C

Prep Batch: VXX37520
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:10
Prep Initial Wt./Vol.: 65.544 g
Prep Extract Vol: 29.7288 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH4-24

Client Sample ID: TH4-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357002
Lab Project ID: 1214357

Collection Date: 07/13/21 10:10
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.8
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH4-24

Client Sample ID: TH4-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357002
Lab Project ID: 1214357

Collection Date: 07/13/21 10:10
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.8
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical parameters like Chloroethane, Chloroform, etc., with their respective values and analysis dates.

Print Date: 08/13/2021 2:31:59PM



Results of TH4-24

Client Sample ID: **TH4-24**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357002
Lab Project ID: 1214357

Collection Date: 07/13/21 10:10
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.8
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 14:04
Container ID: 1214357002-C

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:10
Prep Initial Wt./Vol.: 65.544 g
Prep Extract Vol: 29.7288 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH4-24

Client Sample ID: **TH4-24**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357002
Lab Project ID: 1214357

Collection Date: 07/13/21 10:10
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.8
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.122 U | 0.122 | 0.0303 | ug/kg | 1 | | 07/26/21 21:59 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 82.3 | 55-151 | | % | 1 | | 07/26/21 21:59 |
| Toluene-d8 (surr) | 101 | 85-116 | | % | 1 | | 07/26/21 21:59 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/26/21 21:59
Container ID: 1214357002-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:10
Prep Initial Wt./Vol.: 65.544 g
Prep Extract Vol: 29.7288 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH9-0

Client Sample ID: **TH9-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357003
Lab Project ID: 1214357

Collection Date: 07/13/21 11:43
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.1
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 18.2 | 1.08 | 0.336 | mg/kg | 10 | | 07/27/21 23:53 |
| Barium | 29.5 | 0.325 | 0.102 | mg/kg | 10 | | 07/27/21 23:53 |
| Cadmium | 0.217 U | 0.217 | 0.0672 | mg/kg | 10 | | 07/27/21 23:53 |
| Chromium | 23.9 | 1.08 | 0.336 | mg/kg | 10 | | 07/27/21 23:53 |
| Lead | 11.5 | 0.217 | 0.0672 | mg/kg | 10 | | 07/27/21 23:53 |
| Mercury | 0.325 U | 0.325 | 0.108 | mg/kg | 10 | | 07/27/21 23:53 |
| Selenium | 2.17 U | 2.17 | 0.672 | mg/kg | 10 | | 07/27/21 23:53 |
| Silver | 0.542 U | 0.542 | 0.163 | mg/kg | 10 | | 07/27/21 23:53 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/27/21 23:53
Container ID: 1214357003-A

Prep Batch: MXX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.046 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH9-0

Client Sample ID: **TH9-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357003
Lab Project ID: 1214357

Collection Date: 07/13/21 11:43
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.1
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 55.6 U | 55.6 | 13.9 | ug/kg | 1 | | 07/20/21 22:12 |
| Aroclor-1221 | 111 U | 111 | 27.8 | ug/kg | 1 | | 07/20/21 22:12 |
| Aroclor-1232 | 55.6 U | 55.6 | 13.9 | ug/kg | 1 | | 07/20/21 22:12 |
| Aroclor-1242 | 55.6 U | 55.6 | 13.9 | ug/kg | 1 | | 07/20/21 22:12 |
| Aroclor-1248 | 55.6 U | 55.6 | 13.9 | ug/kg | 1 | | 07/20/21 22:12 |
| Aroclor-1254 | 55.6 U | 55.6 | 13.9 | ug/kg | 1 | | 07/20/21 22:12 |
| Aroclor-1260 | 55.6 U | 55.6 | 13.9 | ug/kg | 1 | | 07/20/21 22:12 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 70 | 60-125 | | % | 1 | | 07/20/21 22:12 |

Batch Information

Analytical Batch: XGC10936
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/20/21 22:12
Container ID: 1214357003-A

Prep Batch: XXX45197
Prep Method: SW3550C
Prep Date/Time: 07/20/21 12:02
Prep Initial Wt./Vol.: 22.951 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH9-0

Client Sample ID: TH9-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357003
Lab Project ID: 1214357

Collection Date: 07/13/21 11:43
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.1
Location:

Results by Polynuclear Aromatics GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various polynuclear aromatic hydrocarbons and their detection results.

Batch Information

Analytical Batch: XMS12785
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 21:16
Container ID: 1214357003-A

Prep Batch: XXX45212
Prep Method: SW3550C
Prep Date/Time: 07/22/21 10:24
Prep Initial Wt./Vol.: 22.983 g
Prep Extract Vol: 5 mL



Results of TH9-0

Client Sample ID: TH9-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357003
Lab Project ID: 1214357

Collection Date: 07/13/21 11:43
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.1
Location:

Results by Semivolatile Organic Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Diesel Range Organics and Surrogates (5a Androstane (surr)).

Batch Information

Analytical Batch: XFC16010
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/20/21 22:40
Container ID: 1214357003-A

Prep Batch: XXX45198
Prep Method: SW3550C
Prep Date/Time: 07/20/21 14:26
Prep Initial Wt./Vol.: 30.434 g
Prep Extract Vol: 5 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Residual Range Organics and Surrogates (n-Triacontane-d62 (surr)).

Batch Information

Analytical Batch: XFC16010
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/20/21 22:40
Container ID: 1214357003-A

Prep Batch: XXX45198
Prep Method: SW3550C
Prep Date/Time: 07/20/21 14:26
Prep Initial Wt./Vol.: 30.434 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH9-0

Client Sample ID: **TH9-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357003
Lab Project ID: 1214357

Collection Date: 07/13/21 11:43
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.1
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.19 U | 2.19 | 0.658 | mg/kg | 1 | | 07/28/21 21:49 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 56.5 | 50-150 | | % | 1 | | 07/28/21 21:49 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 21:49
Container ID: 1214357003-C

Prep Batch: VXX37520
Prep Method: SW5035A
Prep Date/Time: 07/13/21 11:43
Prep Initial Wt./Vol.: 93.187 g
Prep Extract Vol: 36.05 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH9-0

Client Sample ID: TH9-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357003
Lab Project ID: 1214357

Collection Date: 07/13/21 11:43
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.1
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH9-0

Client Sample ID: TH9-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357003
Lab Project ID: 1214357

Collection Date: 07/13/21 11:43
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.1
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical parameters such as Chloroethane, Chloroform, and Hexachlorobutadiene with their respective results and limits.

Print Date: 08/13/2021 2:31:59PM



Results of **TH9-0**

Client Sample ID: **TH9-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357003
Lab Project ID: 1214357

Collection Date: 07/13/21 11:43
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.1
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 13:31
Container ID: 1214357003-C

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 11:43
Prep Initial Wt./Vol.: 93.187 g
Prep Extract Vol: 36.05 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH9-0

Client Sample ID: **TH9-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357003
Lab Project ID: 1214357

Collection Date: 07/13/21 11:43
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.1
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.110 U | 0.110 | 0.0272 | ug/kg | 1 | | 07/26/21 22:14 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 88.1 | 55-151 | | % | 1 | | 07/26/21 22:14 |
| Toluene-d8 (surr) | 103 | 85-116 | | % | 1 | | 07/26/21 22:14 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/26/21 22:14
Container ID: 1214357003-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/13/21 11:43
Prep Initial Wt./Vol.: 93.187 g
Prep Extract Vol: 36.05 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH14-0

Client Sample ID: **TH14-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357004
Lab Project ID: 1214357

Collection Date: 07/13/21 14:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.8
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 8.90 | 1.13 | 0.350 | mg/kg | 10 | | 07/27/21 23:57 |
| Barium | 26.4 | 0.339 | 0.106 | mg/kg | 10 | | 07/27/21 23:57 |
| Cadmium | 0.367 | 0.226 | 0.0700 | mg/kg | 10 | | 07/27/21 23:57 |
| Chromium | 27.3 | 1.13 | 0.350 | mg/kg | 10 | | 07/27/21 23:57 |
| Lead | 12.1 | 0.226 | 0.0700 | mg/kg | 10 | | 07/27/21 23:57 |
| Mercury | 0.339 U | 0.339 | 0.113 | mg/kg | 10 | | 07/27/21 23:57 |
| Selenium | 2.26 U | 2.26 | 0.700 | mg/kg | 10 | | 07/27/21 23:57 |
| Silver | 0.564 U | 0.564 | 0.169 | mg/kg | 10 | | 07/27/21 23:57 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/27/21 23:57
Container ID: 1214357004-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.009 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH14-0

Client Sample ID: **TH14-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357004
Lab Project ID: 1214357

Collection Date: 07/13/21 14:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.8
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 62.3 U | 62.3 | 15.6 | ug/kg | 1 | | 07/26/21 21:38 |
| Aroclor-1221 | 125 U | 125 | 31.1 | ug/kg | 1 | | 07/26/21 21:38 |
| Aroclor-1232 | 62.3 U | 62.3 | 15.6 | ug/kg | 1 | | 07/26/21 21:38 |
| Aroclor-1242 | 62.3 U | 62.3 | 15.6 | ug/kg | 1 | | 07/26/21 21:38 |
| Aroclor-1248 | 62.3 U | 62.3 | 15.6 | ug/kg | 1 | | 07/26/21 21:38 |
| Aroclor-1254 | 62.3 U | 62.3 | 15.6 | ug/kg | 1 | | 07/26/21 21:38 |
| Aroclor-1260 | 62.3 U | 62.3 | 15.6 | ug/kg | 1 | | 07/26/21 21:38 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 50 * | 60-125 | | % | 1 | | 07/26/21 21:38 |

Batch Information

Analytical Batch: XGC10944
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/26/21 21:38
Container ID: 1214357004-A

Prep Batch: XXX45197
Prep Method: SW3550C
Prep Date/Time: 07/20/21 12:02
Prep Initial Wt./Vol.: 20.57 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH14-0

Client Sample ID: TH14-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357004
Lab Project ID: 1214357

Collection Date: 07/13/21 14:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.8
Location:

Results by Semivolatile Organic Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Diesel Range Organics and Surrogates (5a Androstane).

Batch Information

Analytical Batch: XFC16010
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 00:00
Container ID: 1214357004-A

Prep Batch: XXX45198
Prep Method: SW3550C
Prep Date/Time: 07/20/21 14:26
Prep Initial Wt./Vol.: 30.161 g
Prep Extract Vol: 5 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Residual Range Organics and Surrogates (n-Triacontane-d62).

Batch Information

Analytical Batch: XFC16012
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 22:00
Container ID: 1214357004-A

Prep Batch: XXX45198
Prep Method: SW3550C
Prep Date/Time: 07/20/21 14:26
Prep Initial Wt./Vol.: 30.161 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH14-0

Client Sample ID: **TH14-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357004
Lab Project ID: 1214357

Collection Date: 07/13/21 14:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.8
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 3.32 U | 3.32 | 0.996 | mg/kg | 1 | | 07/28/21 22:06 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 83.8 | 50-150 | | % | 1 | | 07/28/21 22:06 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 22:06
Container ID: 1214357004-C

Prep Batch: VXX37520
Prep Method: SW5035A
Prep Date/Time: 07/13/21 14:00
Prep Initial Wt./Vol.: 54.178 g
Prep Extract Vol: 31.5954 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH14-0

Client Sample ID: TH14-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357004
Lab Project ID: 1214357

Collection Date: 07/13/21 14:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.8
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH14-0

Client Sample ID: TH14-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357004
Lab Project ID: 1214357

Collection Date: 07/13/21 14:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.8
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH14-0

Client Sample ID: **TH14-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357004
Lab Project ID: 1214357

Collection Date: 07/13/21 14:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.8
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 14:20
Container ID: 1214357004-C

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 14:00
Prep Initial Wt./Vol.: 90.705 g
Prep Extract Vol: 36.042 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH14-0

Client Sample ID: **TH14-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357004
Lab Project ID: 1214357

Collection Date: 07/13/21 14:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.8
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.113 U | 0.113 | 0.0281 | ug/kg | 1 | | 07/26/21 22:29 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 71 | 55-151 | | % | 1 | | 07/26/21 22:29 |
| Toluene-d8 (surr) | 101 | 85-116 | | % | 1 | | 07/26/21 22:29 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/26/21 22:29
Container ID: 1214357004-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/13/21 14:00
Prep Initial Wt./Vol.: 90.705 g
Prep Extract Vol: 36.042 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH15-48

Client Sample ID: **TH15-48**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357005
Lab Project ID: 1214357

Collection Date: 07/13/21 15:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):54.7
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 109 | 36.4 | 11.3 | mg/kg | 1 | | 07/21/21 15:58 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 86.5 | 50-150 | | % | 1 | | 07/21/21 15:58 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 15:58
Container ID: 1214357005-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.083 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 223 | 182 | 78.3 | mg/kg | 1 | | 07/21/21 15:58 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 89.1 | 50-150 | | % | 1 | | 07/21/21 15:58 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 15:58
Container ID: 1214357005-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.083 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH15-48

Client Sample ID: **TH15-48**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357005
Lab Project ID: 1214357

Collection Date: 07/13/21 15:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):54.7
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 36.9 | | 8.97 | 2.69 | mg/kg | 1 | | 07/28/21 23:36 |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (surr) | 184 | * | 50-150 | | % | 1 | | 07/28/21 23:36 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 23:36
Container ID: 1214357005-B

Prep Batch: VXX37520
Prep Method: SW5035A
Prep Date/Time: 07/13/21 15:00
Prep Initial Wt./Vol.: 47.177 g
Prep Extract Vol: 46.3478 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH15-48

Client Sample ID: TH15-48
Client Project ID: Danger Bay
Lab Sample ID: 1214357005
Lab Project ID: 1214357

Collection Date: 07/13/21 15:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):54.7
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 71.8 U | 71.8 | 22.3 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,1,1-Trichloroethane | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,1,2,2-Tetrachloroethane | 7.18 U | 7.18 | 2.23 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,1,2-Trichloroethane | 2.87 U | 2.87 | 0.897 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,1-Dichloroethane | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,1-Dichloroethene | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,1-Dichloropropene | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,2,3-Trichlorobenzene | 179 U | 179 | 53.8 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,2,3-Trichloropropane | 7.18 U | 7.18 | 2.23 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,2,4-Trichlorobenzene | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,2,4-Trimethylbenzene | 6880 | 179 | 53.8 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,2-Dibromo-3-chloropropane | 359 U | 359 | 111 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,2-Dibromoethane | 3.59 U | 3.59 | 1.44 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,2-Dichlorobenzene | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,2-Dichloroethane | 7.18 U | 7.18 | 2.51 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,2-Dichloropropane | 35.9 U | 35.9 | 11.1 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,3,5-Trimethylbenzene | 2480 | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,3-Dichlorobenzene | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,3-Dichloropropane | 35.9 U | 35.9 | 11.1 | ug/kg | 1 | | 07/22/21 14:37 |
| 1,4-Dichlorobenzene | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| 2,2-Dichloropropane | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| 2-Butanone (MEK) | 897 U | 897 | 280 | ug/kg | 1 | | 07/22/21 14:37 |
| 2-Chlorotoluene | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| 2-Hexanone | 359 U | 359 | 111 | ug/kg | 1 | | 07/22/21 14:37 |
| 4-Chlorotoluene | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| 4-Isopropyltoluene | 359 U | 359 | 89.7 | ug/kg | 1 | | 07/22/21 14:37 |
| 4-Methyl-2-pentanone (MIBK) | 897 U | 897 | 280 | ug/kg | 1 | | 07/22/21 14:37 |
| Acetone | 897 U | 897 | 280 | ug/kg | 1 | | 07/22/21 14:37 |
| Benzene | 44.9 U | 44.9 | 14.0 | ug/kg | 1 | | 07/22/21 14:37 |
| Bromobenzene | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| Bromochloromethane | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| Bromodichloromethane | 7.18 U | 7.18 | 2.23 | ug/kg | 1 | | 07/22/21 14:37 |
| Bromoform | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |
| Bromomethane | 71.8 U | 71.8 | 22.3 | ug/kg | 1 | | 07/22/21 14:37 |
| Carbon disulfide | 359 U | 359 | 111 | ug/kg | 1 | | 07/22/21 14:37 |
| Carbon tetrachloride | 44.9 U | 44.9 | 14.0 | ug/kg | 1 | | 07/22/21 14:37 |
| Chlorobenzene | 89.7 U | 89.7 | 28.0 | ug/kg | 1 | | 07/22/21 14:37 |

Print Date: 08/13/2021 2:31:59PM



Results of TH15-48

Client Sample ID: TH15-48
Client Project ID: Danger Bay
Lab Sample ID: 1214357005
Lab Project ID: 1214357

Collection Date: 07/13/21 15:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):54.7
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH15-48

Client Sample ID: **TH15-48**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357005
Lab Project ID: 1214357

Collection Date: 07/13/21 15:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):54.7
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 14:37
Container ID: 1214357005-B

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 15:00
Prep Initial Wt./Vol.: 47.177 g
Prep Extract Vol: 46.3478 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH15-96

Client Sample ID: TH15-96
Client Project ID: Danger Bay
Lab Sample ID: 1214357006
Lab Project ID: 1214357

Collection Date: 07/13/21 15:05
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.4
Location:

Results by Polynuclear Aromatics GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various polynuclear aromatic hydrocarbons and their surrogate results.

Batch Information

Analytical Batch: XMS12785
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 14:06
Container ID: 1214357006-A

Prep Batch: XXX45212
Prep Method: SW3550C
Prep Date/Time: 07/22/21 10:24
Prep Initial Wt./Vol.: 22.633 g
Prep Extract Vol: 5 mL



Results of TH15-96

Client Sample ID: TH15-96
Client Project ID: Danger Bay
Lab Sample ID: 1214357006
Lab Project ID: 1214357

Collection Date: 07/13/21 15:05
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.4
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 1910 | 22.6 | 7.00 | mg/kg | 1 | | 07/21/21 16:08 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 104 | 50-150 | | % | 1 | | 07/21/21 16:08 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 16:08
Container ID: 1214357006-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.403 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 113 U | 113 | 48.5 | mg/kg | 1 | | 07/21/21 16:08 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 104 | 50-150 | | % | 1 | | 07/21/21 16:08 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 16:08
Container ID: 1214357006-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.403 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH15-96

Client Sample ID: **TH15-96**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357006
Lab Project ID: 1214357

Collection Date: 07/13/21 15:05
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.4
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 31.9 | | 10.2 | 3.07 | mg/kg | 5 | | 07/28/21 22:42 |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (surr) | 799 | * | 50-150 | | % | 5 | | 07/28/21 22:42 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 22:42
Container ID: 1214357006-B

Prep Batch: VXX37520
Prep Method: SW5035A
Prep Date/Time: 07/13/21 15:05
Prep Initial Wt./Vol.: 107.879 g
Prep Extract Vol: 38.5778 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH15-96

Client Sample ID: TH15-96
Client Project ID: Danger Bay
Lab Sample ID: 1214357006
Lab Project ID: 1214357

Collection Date: 07/13/21 15:05
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.4
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH15-96

Client Sample ID: **TH15-96**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357006
 Lab Project ID: 1214357

Collection Date: 07/13/21 15:05
 Received Date: 07/16/21 15:44
 Matrix: Soil/Solid (dry weight)
 Solids (%):87.4
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 818 U | 818 | 254 | ug/kg | 5 | | 07/22/21 19:18 |
| Chloroform | 16.4 U | 16.4 | 4.09 | ug/kg | 5 | | 07/22/21 19:18 |
| Chloromethane | 102 U | 102 | 31.9 | ug/kg | 5 | | 07/22/21 19:18 |
| cis-1,2-Dichloroethene | 102 U | 102 | 31.9 | ug/kg | 5 | | 07/22/21 19:18 |
| cis-1,3-Dichloropropene | 51.1 U | 51.1 | 16.0 | ug/kg | 5 | | 07/22/21 19:18 |
| Dibromochloromethane | 20.5 U | 20.5 | 6.14 | ug/kg | 5 | | 07/22/21 19:18 |
| Dibromomethane | 102 U | 102 | 31.9 | ug/kg | 5 | | 07/22/21 19:18 |
| Dichlorodifluoromethane | 205 U | 205 | 61.4 | ug/kg | 5 | | 07/22/21 19:18 |
| Ethylbenzene | 102 U | 102 | 31.9 | ug/kg | 5 | | 07/22/21 19:18 |
| Freon-113 | 409 U | 409 | 127 | ug/kg | 5 | | 07/22/21 19:18 |
| Hexachlorobutadiene | 81.8 U | 81.8 | 25.4 | ug/kg | 5 | | 07/22/21 19:18 |
| Isopropylbenzene (Cumene) | 102 U | 102 | 31.9 | ug/kg | 5 | | 07/22/21 19:18 |
| Methylene chloride | 409 U | 409 | 127 | ug/kg | 5 | | 07/22/21 19:18 |
| Methyl-t-butyl ether | 409 U | 409 | 127 | ug/kg | 5 | | 07/22/21 19:18 |
| Naphthalene | 134 | 102 | 31.9 | ug/kg | 5 | | 07/23/21 20:35 |
| n-Butylbenzene | 102 U | 102 | 31.9 | ug/kg | 5 | | 07/22/21 19:18 |
| n-Propylbenzene | 314 | 102 | 31.9 | ug/kg | 5 | | 07/22/21 19:18 |
| o-Xylene | 102 U | 102 | 31.9 | ug/kg | 5 | | 07/22/21 19:18 |
| P & M -Xylene | 205 U | 205 | 61.4 | ug/kg | 5 | | 07/22/21 19:18 |
| sec-Butylbenzene | 758 | 102 | 31.9 | ug/kg | 5 | | 07/22/21 19:18 |
| Styrene | 102 U | 102 | 31.9 | ug/kg | 5 | | 07/22/21 19:18 |
| tert-Butylbenzene | 102 U | 102 | 31.9 | ug/kg | 5 | | 07/22/21 19:18 |
| Tetrachloroethene | 51.1 U | 51.1 | 16.0 | ug/kg | 5 | | 07/22/21 19:18 |
| Toluene | 102 U | 102 | 31.9 | ug/kg | 5 | | 07/22/21 19:18 |
| trans-1,2-Dichloroethene | 102 U | 102 | 31.9 | ug/kg | 5 | | 07/22/21 19:18 |
| trans-1,3-Dichloropropene | 51.1 U | 51.1 | 16.0 | ug/kg | 5 | | 07/22/21 19:18 |
| Trichloroethene | 20.5 U | 20.5 | 6.14 | ug/kg | 5 | | 07/22/21 19:18 |
| Trichlorofluoromethane | 205 U | 205 | 61.4 | ug/kg | 5 | | 07/22/21 19:18 |
| Vinyl acetate | 409 U | 409 | 127 | ug/kg | 5 | | 07/22/21 19:18 |
| Vinyl chloride | 3.27 U | 3.27 | 1.02 | ug/kg | 5 | | 07/22/21 19:18 |
| Xylenes (total) | 307 U | 307 | 93.3 | ug/kg | 5 | | 07/22/21 19:18 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 107 | 71-136 | | % | 5 | | 07/22/21 19:18 |
| 4-Bromofluorobenzene (surr) | 105 | 55-151 | | % | 5 | | 07/22/21 19:18 |
| Toluene-d8 (surr) | 100 | 85-116 | | % | 5 | | 07/22/21 19:18 |

Print Date: 08/13/2021 2:31:59PM



Results of TH15-96

Client Sample ID: **TH15-96**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357006
Lab Project ID: 1214357

Collection Date: 07/13/21 15:05
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.4
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 19:18
Container ID: 1214357006-B

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 15:05
Prep Initial Wt./Vol.: 107.879 g
Prep Extract Vol: 38.5778 mL

Analytical Batch: VMS20962
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/23/21 20:35
Container ID: 1214357006-B

Prep Batch: VXX37485
Prep Method: SW5035A
Prep Date/Time: 07/13/21 15:05
Prep Initial Wt./Vol.: 107.879 g
Prep Extract Vol: 38.5778 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH15-72

Client Sample ID: **TH15-72**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357007
Lab Project ID: 1214357

Collection Date: 07/13/21 15:10
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.1
Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 527 | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| 2-Methylnaphthalene | 599 | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Acenaphthene | 147 U | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Acenaphthylene | 147 U | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Anthracene | 147 U | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Benzo(a)Anthracene | 147 U | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Benzo[a]pyrene | 147 U | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Benzo[b]Fluoranthene | 147 U | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Benzo[g,h,i]perylene | 147 U | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Benzo[k]fluoranthene | 147 U | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Chrysene | 147 U | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Dibenzo[a,h]anthracene | 147 U | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Fluoranthene | 147 U | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Fluorene | 219 | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Indeno[1,2,3-c,d] pyrene | 147 U | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Naphthalene | 117 U | 117 | 29.3 | ug/kg | 5 | | 07/27/21 15:59 |
| Phenanthrene | 215 | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Pyrene | 147 U | 147 | 36.7 | ug/kg | 5 | | 07/27/21 15:59 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 117 | * | 58-103 | % | 5 | | 07/27/21 15:59 |
| Fluoranthene-d10 (surr) | 93.6 | | 54-113 | % | 5 | | 07/27/21 15:59 |

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 15:59
Container ID: 1214357007-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.536 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH15-72

Client Sample ID: TH15-72
Client Project ID: Danger Bay
Lab Sample ID: 1214357007
Lab Project ID: 1214357

Collection Date: 07/13/21 15:10
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.1
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 2370 | 23.3 | 7.23 | mg/kg | 1 | | 07/21/21 16:18 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 104 | 50-150 | | % | 1 | | 07/21/21 16:18 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 16:18
Container ID: 1214357007-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.228 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 117 U | 117 | 50.1 | mg/kg | 1 | | 07/21/21 16:18 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 103 | 50-150 | | % | 1 | | 07/21/21 16:18 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 16:18
Container ID: 1214357007-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.228 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH15-72

Client Sample ID: **TH15-72**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357007
Lab Project ID: 1214357

Collection Date: 07/13/21 15:10
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.1
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 72.4 | | 11.3 | 3.40 | mg/kg | 5 | | 07/28/21 23:00 |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (surr) | 987 | * | 50-150 | | % | 5 | | 07/28/21 23:00 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 23:00
Container ID: 1214357007-B

Prep Batch: VXX37520
Prep Method: SW5035A
Prep Date/Time: 07/13/21 15:10
Prep Initial Wt./Vol.: 105.42 g
Prep Extract Vol: 40.6958 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH15-72

Client Sample ID: TH15-72
Client Project ID: Danger Bay
Lab Sample ID: 1214357007
Lab Project ID: 1214357

Collection Date: 07/13/21 15:10
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.1
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH15-72

Client Sample ID: TH15-72
Client Project ID: Danger Bay
Lab Sample ID: 1214357007
Lab Project ID: 1214357

Collection Date: 07/13/21 15:10
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.1
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of **TH15-72**

Client Sample ID: **TH15-72**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357007
Lab Project ID: 1214357

Collection Date: 07/13/21 15:10
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.1
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 19:34
Container ID: 1214357007-B

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 15:10
Prep Initial Wt./Vol.: 105.42 g
Prep Extract Vol: 40.6958 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH16-36

Client Sample ID: TH16-36
Client Project ID: Danger Bay
Lab Sample ID: 1214357008
Lab Project ID: 1214357

Collection Date: 07/13/21 16:39
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):54.6
Location:

Results by Polynuclear Aromatics GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various polynuclear aromatic hydrocarbons and their detection results.

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 18:02
Container ID: 1214357008-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.638 g
Prep Extract Vol: 5 mL



Results of TH16-36

Client Sample ID: TH16-36
Client Project ID: Danger Bay
Lab Sample ID: 1214357008
Lab Project ID: 1214357

Collection Date: 07/13/21 16:39
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):54.6
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 36.2 U | 36.2 | 11.2 | mg/kg | 1 | | 07/21/21 16:28 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 89 | 50-150 | | % | 1 | | 07/21/21 16:28 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 16:28
Container ID: 1214357008-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.308 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 181 U | 181 | 77.9 | mg/kg | 1 | | 07/21/21 16:28 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 91.6 | 50-150 | | % | 1 | | 07/21/21 16:28 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 16:28
Container ID: 1214357008-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.308 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH16-36

Client Sample ID: **TH16-36**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357008
Lab Project ID: 1214357

Collection Date: 07/13/21 16:39
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):54.6
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 8.16 U | 8.16 | 2.45 | mg/kg | 1 | | 07/29/21 01:05 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 69.7 | 50-150 | | % | 1 | | 07/29/21 01:05 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 01:05
Container ID: 1214357008-B

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/13/21 16:39
Prep Initial Wt./Vol.: 57.061 g
Prep Extract Vol: 50.8943 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH16-36

Client Sample ID: TH16-36
Client Project ID: Danger Bay
Lab Sample ID: 1214357008
Lab Project ID: 1214357

Collection Date: 07/13/21 16:39
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):54.6
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH16-36

Client Sample ID: TH16-36
Client Project ID: Danger Bay
Lab Sample ID: 1214357008
Lab Project ID: 1214357

Collection Date: 07/13/21 16:39
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):54.6
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH16-36

Client Sample ID: **TH16-36**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357008
Lab Project ID: 1214357

Collection Date: 07/13/21 16:39
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):54.6
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 14:54
Container ID: 1214357008-B

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 16:39
Prep Initial Wt./Vol.: 57.061 g
Prep Extract Vol: 50.8943 mL

Analytical Batch: VMS20962
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/23/21 20:02
Container ID: 1214357008-B

Prep Batch: VXX37485
Prep Method: SW5035A
Prep Date/Time: 07/13/21 16:39
Prep Initial Wt./Vol.: 57.061 g
Prep Extract Vol: 50.8943 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH22-24

Client Sample ID: **TH22-24**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357009
Lab Project ID: 1214357

Collection Date: 07/13/21 19:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):65.5
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 5.04 | 1.50 | 0.466 | mg/kg | 10 | | 07/28/21 00:01 |
| Barium | 60.0 | 0.451 | 0.141 | mg/kg | 10 | | 07/28/21 00:01 |
| Cadmium | 0.301 U | 0.301 | 0.0932 | mg/kg | 10 | | 07/28/21 00:01 |
| Chromium | 21.2 | 1.50 | 0.466 | mg/kg | 10 | | 07/28/21 00:01 |
| Lead | 8.01 | 0.301 | 0.0932 | mg/kg | 10 | | 07/28/21 00:01 |
| Mercury | 0.451 U | 0.451 | 0.150 | mg/kg | 10 | | 07/28/21 00:01 |
| Selenium | 3.01 U | 3.01 | 0.932 | mg/kg | 10 | | 07/28/21 00:01 |
| Silver | 0.752 U | 0.752 | 0.226 | mg/kg | 10 | | 07/28/21 00:01 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 00:01
Container ID: 1214357009-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.016 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH22-24

Client Sample ID: TH22-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357009
Lab Project ID: 1214357

Collection Date: 07/13/21 19:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):65.5
Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| 2-Methylnaphthalene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Acenaphthene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Acenaphthylene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Anthracene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Benzo(a)Anthracene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Benzo[a]pyrene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Benzo[b]Fluoranthene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Benzo[g,h,i]perylene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Benzo[k]fluoranthene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Chrysene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Dibenzo[a,h]anthracene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Fluoranthene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Fluorene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Indeno[1,2,3-c,d] pyrene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Naphthalene | 60.4 U | 60.4 | 15.1 | ug/kg | 2 | | 07/27/21 16:20 |
| Phenanthrene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Pyrene | 75.5 U | 75.5 | 18.9 | ug/kg | 2 | | 07/27/21 16:20 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 89.2 | 58-103 | | % | 2 | | 07/27/21 16:20 |
| Fluoranthene-d10 (surr) | 73.5 | 54-113 | | % | 2 | | 07/27/21 16:20 |

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 16:20
Container ID: 1214357009-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.754 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH22-24

Client Sample ID: TH22-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357009
Lab Project ID: 1214357

Collection Date: 07/13/21 19:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):65.5
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 1860 | 30.5 | 9.47 | mg/kg | 1 | | 07/21/21 00:10 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 91.4 | 50-150 | | % | 1 | | 07/21/21 00:10 |

Batch Information

Analytical Batch: XFC16010
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 00:10
Container ID: 1214357009-A

Prep Batch: XXX45198
Prep Method: SW3550C
Prep Date/Time: 07/20/21 14:26
Prep Initial Wt./Vol.: 30.005 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 6060 | 153 | 65.7 | mg/kg | 1 | | 07/21/21 00:10 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 80.5 | 50-150 | | % | 1 | | 07/21/21 00:10 |

Batch Information

Analytical Batch: XFC16010
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 00:10
Container ID: 1214357009-A

Prep Batch: XXX45198
Prep Method: SW3550C
Prep Date/Time: 07/20/21 14:26
Prep Initial Wt./Vol.: 30.005 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH22-24

Client Sample ID: TH22-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357009
Lab Project ID: 1214357

Collection Date: 07/13/21 19:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):65.5
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 8.00 | 5.88 | 1.77 | mg/kg | 1 | | 07/29/21 01:23 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 77 | 50-150 | | % | 1 | | 07/29/21 01:23 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 01:23
Container ID: 1214357009-B

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/13/21 19:15
Prep Initial Wt./Vol.: 58.841 g
Prep Extract Vol: 45.3233 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH22-24

Client Sample ID: TH22-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357009
Lab Project ID: 1214357

Collection Date: 07/13/21 19:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):65.5
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 47.1 U | 47.1 | 14.6 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,1,1-Trichloroethane | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,1,2,2-Tetrachloroethane | 4.71 U | 4.71 | 1.46 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,1,2-Trichloroethane | 1.88 U | 1.88 | 0.588 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,1-Dichloroethane | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,1-Dichloroethene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,1-Dichloropropene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,2,3-Trichlorobenzene | 118 U | 118 | 35.3 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,2,3-Trichloropropane | 4.71 U | 4.71 | 1.46 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,2,4-Trichlorobenzene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,2,4-Trimethylbenzene | 118 U | 118 | 35.3 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,2-Dibromo-3-chloropropane | 235 U | 235 | 73.0 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,2-Dibromoethane | 2.35 U | 2.35 | 0.941 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,2-Dichlorobenzene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,2-Dichloroethane | 4.71 U | 4.71 | 1.65 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,2-Dichloropropane | 23.5 U | 23.5 | 7.30 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,3,5-Trimethylbenzene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,3-Dichlorobenzene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,3-Dichloropropane | 23.5 U | 23.5 | 7.30 | ug/kg | 1 | | 07/22/21 15:10 |
| 1,4-Dichlorobenzene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| 2,2-Dichloropropane | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| 2-Butanone (MEK) | 588 U | 588 | 184 | ug/kg | 1 | | 07/22/21 15:10 |
| 2-Chlorotoluene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| 2-Hexanone | 235 U | 235 | 73.0 | ug/kg | 1 | | 07/22/21 15:10 |
| 4-Chlorotoluene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| 4-Isopropyltoluene | 19100 | 2350 | 588 | ug/kg | 10 | | 07/23/21 20:18 |
| 4-Methyl-2-pentanone (MIBK) | 588 U | 588 | 184 | ug/kg | 1 | | 07/22/21 15:10 |
| Acetone | 1370 | 588 | 184 | ug/kg | 1 | | 07/22/21 15:10 |
| Benzene | 29.4 U | 29.4 | 9.18 | ug/kg | 1 | | 07/22/21 15:10 |
| Bromobenzene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| Bromochloromethane | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| Bromodichloromethane | 4.71 U | 4.71 | 1.46 | ug/kg | 1 | | 07/22/21 15:10 |
| Bromoform | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| Bromomethane | 47.1 U | 47.1 | 14.6 | ug/kg | 1 | | 07/22/21 15:10 |
| Carbon disulfide | 235 U | 235 | 73.0 | ug/kg | 1 | | 07/22/21 15:10 |
| Carbon tetrachloride | 29.4 U | 29.4 | 9.18 | ug/kg | 1 | | 07/22/21 15:10 |
| Chlorobenzene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |

Print Date: 08/13/2021 2:31:59PM



Results of TH22-24

Client Sample ID: TH22-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357009
Lab Project ID: 1214357

Collection Date: 07/13/21 19:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):65.5
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 471 U | 471 | 146 | ug/kg | 1 | | 07/22/21 15:10 |
| Chloroform | 9.41 U | 9.41 | 2.35 | ug/kg | 1 | | 07/22/21 15:10 |
| Chloromethane | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| cis-1,2-Dichloroethene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| cis-1,3-Dichloropropene | 29.4 U | 29.4 | 9.18 | ug/kg | 1 | | 07/22/21 15:10 |
| Dibromochloromethane | 11.8 U | 11.8 | 3.53 | ug/kg | 1 | | 07/22/21 15:10 |
| Dibromomethane | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| Dichlorodifluoromethane | 118 U | 118 | 35.3 | ug/kg | 1 | | 07/22/21 15:10 |
| Ethylbenzene | 132 | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| Freon-113 | 235 U | 235 | 73.0 | ug/kg | 1 | | 07/22/21 15:10 |
| Hexachlorobutadiene | 47.1 U | 47.1 | 14.6 | ug/kg | 1 | | 07/22/21 15:10 |
| Isopropylbenzene (Cumene) | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| Methylene chloride | 235 U | 235 | 73.0 | ug/kg | 1 | | 07/22/21 15:10 |
| Methyl-t-butyl ether | 235 U | 235 | 73.0 | ug/kg | 1 | | 07/22/21 15:10 |
| Naphthalene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| n-Butylbenzene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| n-Propylbenzene | 215 | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| o-Xylene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| P & M -Xylene | 118 U | 118 | 35.3 | ug/kg | 1 | | 07/22/21 15:10 |
| sec-Butylbenzene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| Styrene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| tert-Butylbenzene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| Tetrachloroethene | 29.4 U | 29.4 | 9.18 | ug/kg | 1 | | 07/22/21 15:10 |
| Toluene | 418 | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| trans-1,2-Dichloroethene | 58.8 U | 58.8 | 18.4 | ug/kg | 1 | | 07/22/21 15:10 |
| trans-1,3-Dichloropropene | 29.4 U | 29.4 | 9.18 | ug/kg | 1 | | 07/22/21 15:10 |
| Trichloroethene | 11.8 U | 11.8 | 3.53 | ug/kg | 1 | | 07/22/21 15:10 |
| Trichlorofluoromethane | 118 U | 118 | 35.3 | ug/kg | 1 | | 07/22/21 15:10 |
| Vinyl acetate | 235 U | 235 | 73.0 | ug/kg | 1 | | 07/22/21 15:10 |
| Vinyl chloride | 1.88 U | 1.88 | 0.588 | ug/kg | 1 | | 07/22/21 15:10 |
| Xylenes (total) | 177 U | 177 | 53.7 | ug/kg | 1 | | 07/22/21 15:10 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 113 | 71-136 | | % | 1 | | 07/22/21 15:10 |
| 4-Bromofluorobenzene (surr) | 85.4 | 55-151 | | % | 1 | | 07/22/21 15:10 |
| Toluene-d8 (surr) | 99.1 | 85-116 | | % | 1 | | 07/22/21 15:10 |

Print Date: 08/13/2021 2:31:59PM



Results of TH22-24

Client Sample ID: **TH22-24**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357009
Lab Project ID: 1214357

Collection Date: 07/13/21 19:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):65.5
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 15:10
Container ID: 1214357009-B

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 19:15
Prep Initial Wt./Vol.: 58.841 g
Prep Extract Vol: 45.3233 mL

Analytical Batch: VMS20962
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/23/21 20:18
Container ID: 1214357009-B

Prep Batch: VXX37485
Prep Method: SW5035A
Prep Date/Time: 07/13/21 19:15
Prep Initial Wt./Vol.: 58.841 g
Prep Extract Vol: 45.3233 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH22-48

Client Sample ID: **TH22-48**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357010
Lab Project ID: 1214357

Collection Date: 07/13/21 19:16
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):43.5
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 6.46 | 2.09 | 0.647 | mg/kg | 10 | | 07/28/21 00:06 |
| Barium | 81.4 | 0.626 | 0.196 | mg/kg | 10 | | 07/28/21 00:06 |
| Cadmium | 0.418 U | 0.418 | 0.129 | mg/kg | 10 | | 07/28/21 00:06 |
| Chromium | 21.4 | 2.09 | 0.647 | mg/kg | 10 | | 07/28/21 00:06 |
| Lead | 9.42 | 0.418 | 0.129 | mg/kg | 10 | | 07/28/21 00:06 |
| Mercury | 0.626 U | 0.626 | 0.209 | mg/kg | 10 | | 07/28/21 00:06 |
| Selenium | 4.18 U | 4.18 | 1.29 | mg/kg | 10 | | 07/28/21 00:06 |
| Silver | 1.04 U | 1.04 | 0.313 | mg/kg | 10 | | 07/28/21 00:06 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 00:06
Container ID: 1214357010-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.1 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH22-48

Client Sample ID: TH22-48
Client Project ID: Danger Bay
Lab Sample ID: 1214357010
Lab Project ID: 1214357

Collection Date: 07/13/21 19:16
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):43.5
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 3460 | 45.6 | 14.1 | mg/kg | 1 | | 07/21/21 00:20 |

Surrogates

| | | | | | | | |
|----------------------|-----|--------|--|---|---|--|----------------|
| 5a Androstane (surr) | 103 | 50-150 | | % | 1 | | 07/21/21 00:20 |
|----------------------|-----|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16010
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 00:20
Container ID: 1214357010-A

Prep Batch: XXX45198
Prep Method: SW3550C
Prep Date/Time: 07/20/21 14:26
Prep Initial Wt./Vol.: 30.238 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 7470 | 228 | 98.0 | mg/kg | 1 | | 07/21/21 00:20 |

Surrogates

| | | | | | | | |
|--------------------------|------|--------|--|---|---|--|----------------|
| n-Triacontane-d62 (surr) | 92.4 | 50-150 | | % | 1 | | 07/21/21 00:20 |
|--------------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16010
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 00:20
Container ID: 1214357010-A

Prep Batch: XXX45198
Prep Method: SW3550C
Prep Date/Time: 07/20/21 14:26
Prep Initial Wt./Vol.: 30.238 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH22-48

Client Sample ID: **TH22-48**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357010
Lab Project ID: 1214357

Collection Date: 07/13/21 19:16
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):43.5
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 35.2 | | 11.2 | 3.37 | mg/kg | 1 | | 07/29/21 01:41 |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (surr) | 248 | * | 50-150 | | % | 1 | | 07/29/21 01:41 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 01:41
Container ID: 1214357010-B

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/13/21 19:16
Prep Initial Wt./Vol.: 60.619 g
Prep Extract Vol: 59.2289 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH22-48

Client Sample ID: **TH22-48**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357010
Lab Project ID: 1214357

Collection Date: 07/13/21 19:16
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):43.5
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 89.8 U | 89.8 | 27.8 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,1,1-Trichloroethane | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,1,2,2-Tetrachloroethane | 8.98 U | 8.98 | 2.78 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,1,2-Trichloroethane | 3.59 U | 3.59 | 1.12 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,1-Dichloroethane | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,1-Dichloroethene | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,1-Dichloropropene | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,2,3-Trichlorobenzene | 224 U | 224 | 67.3 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,2,3-Trichloropropane | 8.98 U | 8.98 | 2.78 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,2,4-Trichlorobenzene | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,2,4-Trimethylbenzene | 224 U | 224 | 67.3 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,2-Dibromo-3-chloropropane | 449 U | 449 | 139 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,2-Dibromoethane | 4.49 U | 4.49 | 1.80 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,2-Dichlorobenzene | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,2-Dichloroethane | 8.98 U | 8.98 | 3.14 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,2-Dichloropropane | 44.9 U | 44.9 | 13.9 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,3,5-Trimethylbenzene | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,3-Dichlorobenzene | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,3-Dichloropropane | 44.9 U | 44.9 | 13.9 | ug/kg | 1 | | 07/22/21 15:27 |
| 1,4-Dichlorobenzene | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| 2,2-Dichloropropane | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| 2-Butanone (MEK) | 1120 U | 1120 | 350 | ug/kg | 1 | | 07/22/21 15:27 |
| 2-Chlorotoluene | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| 2-Hexanone | 449 U | 449 | 139 | ug/kg | 1 | | 07/22/21 15:27 |
| 4-Chlorotoluene | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| 4-Isopropyltoluene | 3500 | 449 | 112 | ug/kg | 1 | | 07/22/21 15:27 |
| 4-Methyl-2-pentanone (MIBK) | 1120 U | 1120 | 350 | ug/kg | 1 | | 07/22/21 15:27 |
| Acetone | 1120 U | 1120 | 350 | ug/kg | 1 | | 07/22/21 15:27 |
| Benzene | 56.1 U | 56.1 | 17.5 | ug/kg | 1 | | 07/22/21 15:27 |
| Bromobenzene | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| Bromochloromethane | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| Bromodichloromethane | 8.98 U | 8.98 | 2.78 | ug/kg | 1 | | 07/22/21 15:27 |
| Bromoform | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |
| Bromomethane | 89.8 U | 89.8 | 27.8 | ug/kg | 1 | | 07/22/21 15:27 |
| Carbon disulfide | 449 U | 449 | 139 | ug/kg | 1 | | 07/22/21 15:27 |
| Carbon tetrachloride | 56.1 U | 56.1 | 17.5 | ug/kg | 1 | | 07/22/21 15:27 |
| Chlorobenzene | 112 U | 112 | 35.0 | ug/kg | 1 | | 07/22/21 15:27 |

Print Date: 08/13/2021 2:31:59PM



Results of TH22-48

Client Sample ID: TH22-48
Client Project ID: Danger Bay
Lab Sample ID: 1214357010
Lab Project ID: 1214357

Collection Date: 07/13/21 19:16
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):43.5
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH22-48

Client Sample ID: **TH22-48**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357010
Lab Project ID: 1214357

Collection Date: 07/13/21 19:16
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):43.5
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 15:27
Container ID: 1214357010-B

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 19:16
Prep Initial Wt./Vol.: 60.619 g
Prep Extract Vol: 59.2289 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH21-0

Client Sample ID: TH21-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357011
Lab Project ID: 1214357

Collection Date: 07/13/21 19:39
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by Semivolatile Organic Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Diesel Range Organics and Surrogates (5a Androstane).

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 16:38
Container ID: 1214357011-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.379 g
Prep Extract Vol: 5 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Residual Range Organics and Surrogates (n-Triacontane-d62).

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 16:38
Container ID: 1214357011-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.379 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH21-0

Client Sample ID: **TH21-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357011
Lab Project ID: 1214357

Collection Date: 07/13/21 19:39
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.24 U | 2.24 | 0.671 | mg/kg | 1 | | 07/29/21 01:58 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 36.6 * | 50-150 | | % | 1 | | 07/29/21 01:58 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 01:58
Container ID: 1214357011-B

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/13/21 19:39
Prep Initial Wt./Vol.: 115.29 g
Prep Extract Vol: 43.3796 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH21-0

Client Sample ID: **TH21-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357011
Lab Project ID: 1214357

Collection Date: 07/13/21 19:39
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 17.9 U | 17.9 | 5.55 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,1,1-Trichloroethane | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,1,2,2-Tetrachloroethane | 1.79 U | 1.79 | 0.555 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,1,2-Trichloroethane | 0.716 U | 0.716 | 0.224 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,1-Dichloroethane | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,1-Dichloroethene | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,1-Dichloropropene | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,2,3-Trichlorobenzene | 44.8 U | 44.8 | 13.4 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,2,3-Trichloropropane | 1.79 U | 1.79 | 0.555 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,2,4-Trichlorobenzene | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,2,4-Trimethylbenzene | 44.8 U | 44.8 | 13.4 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,2-Dibromo-3-chloropropane | 89.5 U | 89.5 | 27.8 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,2-Dibromoethane | 0.895 U | 0.895 | 0.358 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,2-Dichlorobenzene | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,2-Dichloroethane | 1.79 U | 1.79 | 0.627 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,2-Dichloropropane | 8.95 U | 8.95 | 2.78 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,3,5-Trimethylbenzene | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,3-Dichlorobenzene | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,3-Dichloropropane | 8.95 U | 8.95 | 2.78 | ug/kg | 1 | | 07/22/21 15:43 |
| 1,4-Dichlorobenzene | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| 2,2-Dichloropropane | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| 2-Butanone (MEK) | 224 U | 224 | 69.8 | ug/kg | 1 | | 07/22/21 15:43 |
| 2-Chlorotoluene | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| 2-Hexanone | 89.5 U | 89.5 | 27.8 | ug/kg | 1 | | 07/22/21 15:43 |
| 4-Chlorotoluene | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| 4-Isopropyltoluene | 135 | 89.5 | 22.4 | ug/kg | 1 | | 07/22/21 15:43 |
| 4-Methyl-2-pentanone (MIBK) | 224 U | 224 | 69.8 | ug/kg | 1 | | 07/22/21 15:43 |
| Acetone | 224 U | 224 | 69.8 | ug/kg | 1 | | 07/22/21 15:43 |
| Benzene | 11.2 U | 11.2 | 3.49 | ug/kg | 1 | | 07/22/21 15:43 |
| Bromobenzene | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| Bromochloromethane | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| Bromodichloromethane | 1.79 U | 1.79 | 0.555 | ug/kg | 1 | | 07/22/21 15:43 |
| Bromoform | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |
| Bromomethane | 17.9 U | 17.9 | 5.55 | ug/kg | 1 | | 07/22/21 15:43 |
| Carbon disulfide | 89.5 U | 89.5 | 27.8 | ug/kg | 1 | | 07/22/21 15:43 |
| Carbon tetrachloride | 11.2 U | 11.2 | 3.49 | ug/kg | 1 | | 07/22/21 15:43 |
| Chlorobenzene | 22.4 U | 22.4 | 6.98 | ug/kg | 1 | | 07/22/21 15:43 |

Print Date: 08/13/2021 2:31:59PM



Results of TH21-0

Client Sample ID: TH21-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357011
Lab Project ID: 1214357

Collection Date: 07/13/21 19:39
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH21-0

Client Sample ID: **TH21-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357011
Lab Project ID: 1214357

Collection Date: 07/13/21 19:39
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):84.1
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 15:43
Container ID: 1214357011-B

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 19:39
Prep Initial Wt./Vol.: 115.29 g
Prep Extract Vol: 43.3796 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH21-16

Client Sample ID: **TH21-16**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357012
Lab Project ID: 1214357

Collection Date: 07/13/21 19:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.8
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 71.4 | 21.8 | 6.76 | mg/kg | 1 | | 07/21/21 16:48 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 102 | 50-150 | | % | 1 | | 07/21/21 16:48 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 16:48
Container ID: 1214357012-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.321 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 317 | 109 | 46.9 | mg/kg | 1 | | 07/21/21 16:48 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 97.6 | 50-150 | | % | 1 | | 07/21/21 16:48 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 16:48
Container ID: 1214357012-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.321 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH21-16

Client Sample ID: **TH21-16**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357012
Lab Project ID: 1214357

Collection Date: 07/13/21 19:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.8
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.55 U | 2.55 | 0.765 | mg/kg | 1 | | 07/29/21 02:16 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 55.6 | 50-150 | | % | 1 | | 07/29/21 02:16 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 02:16
Container ID: 1214357012-B

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/13/21 19:40
Prep Initial Wt./Vol.: 67.408 g
Prep Extract Vol: 31.1981 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH21-16

Client Sample ID: TH21-16
Client Project ID: Danger Bay
Lab Sample ID: 1214357012
Lab Project ID: 1214357

Collection Date: 07/13/21 19:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.8
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH21-16

Client Sample ID: TH21-16
Client Project ID: Danger Bay
Lab Sample ID: 1214357012
Lab Project ID: 1214357

Collection Date: 07/13/21 19:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.8
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH21-16

Client Sample ID: **TH21-16**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357012
Lab Project ID: 1214357

Collection Date: 07/13/21 19:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.8
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 16:00
Container ID: 1214357012-B

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 19:40
Prep Initial Wt./Vol.: 67.408 g
Prep Extract Vol: 31.1981 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH23-0

Client Sample ID: TH23-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357013
Lab Project ID: 1214357

Collection Date: 07/13/21 20:12
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):71.5
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 2420 | 27.7 | 8.59 | mg/kg | 1 | | 07/21/21 16:58 |

Surrogates

| | | | | | | | |
|----------------------|-----|--------|--|---|---|--|----------------|
| 5a Androstane (surr) | 105 | 50-150 | | % | 1 | | 07/21/21 16:58 |
|----------------------|-----|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 16:58
Container ID: 1214357013-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.288 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 4210 | 139 | 59.6 | mg/kg | 1 | | 07/21/21 16:58 |

Surrogates

| | | | | | | | |
|--------------------------|------|--------|--|---|---|--|----------------|
| n-Triacontane-d62 (surr) | 70.9 | 50-150 | | % | 1 | | 07/21/21 16:58 |
|--------------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 16:58
Container ID: 1214357013-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.288 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH23-0

Client Sample ID: **TH23-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357013
Lab Project ID: 1214357

Collection Date: 07/13/21 20:12
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):71.5
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 4.47 U | 4.47 | 1.34 | mg/kg | 1 | | 07/29/21 02:34 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 35.4 * | 50-150 | | % | 1 | | 07/29/21 02:34 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 02:34
Container ID: 1214357013-B

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/13/21 20:12
Prep Initial Wt./Vol.: 70.472 g
Prep Extract Vol: 45.0817 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH23-0

Client Sample ID: TH23-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357013
Lab Project ID: 1214357

Collection Date: 07/13/21 20:12
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):71.5
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH23-0

Client Sample ID: TH23-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357013
Lab Project ID: 1214357

Collection Date: 07/13/21 20:12
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):71.5
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH23-0

Client Sample ID: **TH23-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357013
Lab Project ID: 1214357

Collection Date: 07/13/21 20:12
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):71.5
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 16:16
Container ID: 1214357013-B

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 20:12
Prep Initial Wt./Vol.: 70.472 g
Prep Extract Vol: 45.0817 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH24-16

Client Sample ID: TH24-16
Client Project ID: Danger Bay
Lab Sample ID: 1214357014
Lab Project ID: 1214357

Collection Date: 07/13/21 20:35
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 78.5 | 21.8 | 6.77 | mg/kg | 1 | | 07/21/21 17:08 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 103 | 50-150 | | % | 1 | | 07/21/21 17:08 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 17:08
Container ID: 1214357014-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.141 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 273 | 109 | 47.0 | mg/kg | 1 | | 07/21/21 17:08 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 97.1 | 50-150 | | % | 1 | | 07/21/21 17:08 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 17:08
Container ID: 1214357014-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.141 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH24-16

Client Sample ID: **TH24-16**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357014
Lab Project ID: 1214357

Collection Date: 07/13/21 20:35
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.36 U | 2.36 | 0.707 | mg/kg | 1 | | 07/29/21 02:52 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 52.4 | 50-150 | | % | 1 | | 07/29/21 02:52 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 02:52
Container ID: 1214357014-B

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/13/21 20:35
Prep Initial Wt./Vol.: 73.311 g
Prep Extract Vol: 31.4959 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH24-16

Client Sample ID: TH24-16
Client Project ID: Danger Bay
Lab Sample ID: 1214357014
Lab Project ID: 1214357

Collection Date: 07/13/21 20:35
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 18.9 U | 18.9 | 5.85 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,1,1-Trichloroethane | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,1,2,2-Tetrachloroethane | 1.89 U | 1.89 | 0.585 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,1,2-Trichloroethane | 0.754 U | 0.754 | 0.236 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,1-Dichloroethane | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,1-Dichloroethene | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,1-Dichloropropene | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,2,3-Trichlorobenzene | 47.1 U | 47.1 | 14.1 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,2,3-Trichloropropane | 1.89 U | 1.89 | 0.585 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,2,4-Trichlorobenzene | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,2,4-Trimethylbenzene | 47.1 U | 47.1 | 14.1 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,2-Dibromo-3-chloropropane | 94.3 U | 94.3 | 29.2 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,2-Dibromoethane | 0.943 U | 0.943 | 0.377 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,2-Dichlorobenzene | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,2-Dichloroethane | 1.89 U | 1.89 | 0.660 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,2-Dichloropropane | 9.43 U | 9.43 | 2.92 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,3,5-Trimethylbenzene | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,3-Dichlorobenzene | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,3-Dichloropropane | 9.43 U | 9.43 | 2.92 | ug/kg | 1 | | 07/22/21 16:33 |
| 1,4-Dichlorobenzene | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| 2,2-Dichloropropane | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| 2-Butanone (MEK) | 236 U | 236 | 73.5 | ug/kg | 1 | | 07/22/21 16:33 |
| 2-Chlorotoluene | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| 2-Hexanone | 94.3 U | 94.3 | 29.2 | ug/kg | 1 | | 07/22/21 16:33 |
| 4-Chlorotoluene | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| 4-Isopropyltoluene | 473 | 94.3 | 23.6 | ug/kg | 1 | | 07/22/21 16:33 |
| 4-Methyl-2-pentanone (MIBK) | 236 U | 236 | 73.5 | ug/kg | 1 | | 07/22/21 16:33 |
| Acetone | 236 U | 236 | 73.5 | ug/kg | 1 | | 07/22/21 16:33 |
| Benzene | 11.8 U | 11.8 | 3.68 | ug/kg | 1 | | 07/22/21 16:33 |
| Bromobenzene | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| Bromochloromethane | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| Bromodichloromethane | 1.89 U | 1.89 | 0.585 | ug/kg | 1 | | 07/22/21 16:33 |
| Bromoform | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |
| Bromomethane | 18.9 U | 18.9 | 5.85 | ug/kg | 1 | | 07/22/21 16:33 |
| Carbon disulfide | 94.3 U | 94.3 | 29.2 | ug/kg | 1 | | 07/22/21 16:33 |
| Carbon tetrachloride | 11.8 U | 11.8 | 3.68 | ug/kg | 1 | | 07/22/21 16:33 |
| Chlorobenzene | 23.6 U | 23.6 | 7.35 | ug/kg | 1 | | 07/22/21 16:33 |

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Results of TH24-16

Client Sample ID: TH24-16
Client Project ID: Danger Bay
Lab Sample ID: 1214357014
Lab Project ID: 1214357

Collection Date: 07/13/21 20:35
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

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Results of TH24-16

Client Sample ID: **TH24-16**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357014
Lab Project ID: 1214357

Collection Date: 07/13/21 20:35
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 16:33
Container ID: 1214357014-B

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 20:35
Prep Initial Wt./Vol.: 73.311 g
Prep Extract Vol: 31.4959 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH24-0

Client Sample ID: TH24-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357015
Lab Project ID: 1214357

Collection Date: 07/13/21 20:37
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):78.4
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 226 | 25.3 | 7.85 | mg/kg | 1 | | 07/21/21 17:18 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 103 | 50-150 | | % | 1 | | 07/21/21 17:18 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 17:18
Container ID: 1214357015-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.214 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 728 | 127 | 54.5 | mg/kg | 1 | | 07/21/21 17:18 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 93.6 | 50-150 | | % | 1 | | 07/21/21 17:18 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 17:18
Container ID: 1214357015-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.214 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH24-0

Client Sample ID: **TH24-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357015
Lab Project ID: 1214357

Collection Date: 07/13/21 20:37
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):78.4
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.94 U | 2.94 | 0.883 | mg/kg | 1 | | 07/29/21 03:10 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 33.5 * | 50-150 | | % | 1 | | 07/29/21 03:10 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 03:10
Container ID: 1214357015-B

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/13/21 20:37
Prep Initial Wt./Vol.: 101.836 g
Prep Extract Vol: 47.0024 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH24-0

Client Sample ID: TH24-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357015
Lab Project ID: 1214357

Collection Date: 07/13/21 20:37
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):78.4
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

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Results of TH24-0

Client Sample ID: TH24-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357015
Lab Project ID: 1214357

Collection Date: 07/13/21 20:37
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):78.4
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

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Results of **TH24-0**

Client Sample ID: **TH24-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357015
Lab Project ID: 1214357

Collection Date: 07/13/21 20:37
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):78.4
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/22/21 16:49
Container ID: 1214357015-B

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 07/13/21 20:37
Prep Initial Wt./Vol.: 101.836 g
Prep Extract Vol: 47.0024 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH24-24

Client Sample ID: TH24-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357016
Lab Project ID: 1214357

Collection Date: 07/13/21 20:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):79.1
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 271 | 24.9 | 7.72 | mg/kg | 1 | | 07/21/21 17:28 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 106 | 50-150 | | % | 1 | | 07/21/21 17:28 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 17:28
Container ID: 1214357016-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.436 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 1050 | 125 | 53.6 | mg/kg | 1 | | 07/21/21 17:28 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 96.8 | 50-150 | | % | 1 | | 07/21/21 17:28 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 17:28
Container ID: 1214357016-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.436 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH24-24

Client Sample ID: **TH24-24**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357016
Lab Project ID: 1214357

Collection Date: 07/13/21 20:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):79.1
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 3.04 U | 3.04 | 0.912 | mg/kg | 1 | | 07/29/21 03:27 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 45.1 * | 50-150 | | % | 1 | | 07/29/21 03:27 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 03:27
Container ID: 1214357016-B

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/13/21 20:40
Prep Initial Wt./Vol.: 91.741 g
Prep Extract Vol: 44.1409 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH24-24

Client Sample ID: TH24-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357016
Lab Project ID: 1214357

Collection Date: 07/13/21 20:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):79.1
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 24.3 U | 24.3 | 7.54 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,1,1-Trichloroethane | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,1,2,2-Tetrachloroethane | 2.43 U | 2.43 | 0.754 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,1,2-Trichloroethane | 0.973 U | 0.973 | 0.304 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,1-Dichloroethane | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,1-Dichloroethene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,1-Dichloropropene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,2,3-Trichlorobenzene | 60.8 U | 60.8 | 18.2 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,2,3-Trichloropropane | 2.43 U | 2.43 | 0.754 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,2,4-Trichlorobenzene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,2,4-Trimethylbenzene | 60.8 U | 60.8 | 18.2 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,2-Dibromo-3-chloropropane | 122 U | 122 | 37.7 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,2-Dibromoethane | 1.22 U | 1.22 | 0.486 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,2-Dichlorobenzene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,2-Dichloroethane | 2.43 U | 2.43 | 0.851 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,2-Dichloropropane | 12.2 U | 12.2 | 3.77 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,3,5-Trimethylbenzene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,3-Dichlorobenzene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,3-Dichloropropane | 12.2 U | 12.2 | 3.77 | ug/kg | 1 | | 07/23/21 18:23 |
| 1,4-Dichlorobenzene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| 2,2-Dichloropropane | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| 2-Butanone (MEK) | 304 U | 304 | 94.8 | ug/kg | 1 | | 07/23/21 18:23 |
| 2-Chlorotoluene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| 2-Hexanone | 122 U | 122 | 37.7 | ug/kg | 1 | | 07/23/21 18:23 |
| 4-Chlorotoluene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| 4-Isopropyltoluene | 454 | 122 | 30.4 | ug/kg | 1 | | 07/23/21 18:23 |
| 4-Methyl-2-pentanone (MIBK) | 304 U | 304 | 94.8 | ug/kg | 1 | | 07/23/21 18:23 |
| Acetone | 330 | 304 | 94.8 | ug/kg | 1 | | 07/23/21 18:23 |
| Benzene | 15.2 U | 15.2 | 4.74 | ug/kg | 1 | | 07/23/21 18:23 |
| Bromobenzene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| Bromochloromethane | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| Bromodichloromethane | 2.43 U | 2.43 | 0.754 | ug/kg | 1 | | 07/23/21 18:23 |
| Bromoform | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| Bromomethane | 24.3 U | 24.3 | 7.54 | ug/kg | 1 | | 07/23/21 18:23 |
| Carbon disulfide | 122 U | 122 | 37.7 | ug/kg | 1 | | 07/23/21 18:23 |
| Carbon tetrachloride | 15.2 U | 15.2 | 4.74 | ug/kg | 1 | | 07/23/21 18:23 |
| Chlorobenzene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |

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Results of TH24-24

Client Sample ID: **TH24-24**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357016
 Lab Project ID: 1214357

Collection Date: 07/13/21 20:40
 Received Date: 07/16/21 15:44
 Matrix: Soil/Solid (dry weight)
 Solids (%):79.1
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 243 U | 243 | 75.4 | ug/kg | 1 | | 07/23/21 18:23 |
| Chloroform | 4.86 U | 4.86 | 1.22 | ug/kg | 1 | | 07/23/21 18:23 |
| Chloromethane | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| cis-1,2-Dichloroethene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| cis-1,3-Dichloropropene | 15.2 U | 15.2 | 4.74 | ug/kg | 1 | | 07/23/21 18:23 |
| Dibromochloromethane | 6.08 U | 6.08 | 1.82 | ug/kg | 1 | | 07/23/21 18:23 |
| Dibromomethane | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| Dichlorodifluoromethane | 60.8 U | 60.8 | 18.2 | ug/kg | 1 | | 07/23/21 18:23 |
| Ethylbenzene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| Freon-113 | 122 U | 122 | 37.7 | ug/kg | 1 | | 07/23/21 18:23 |
| Hexachlorobutadiene | 24.3 U | 24.3 | 7.54 | ug/kg | 1 | | 07/23/21 18:23 |
| Isopropylbenzene (Cumene) | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| Methylene chloride | 122 U | 122 | 37.7 | ug/kg | 1 | | 07/23/21 18:23 |
| Methyl-t-butyl ether | 122 U | 122 | 37.7 | ug/kg | 1 | | 07/23/21 18:23 |
| Naphthalene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| n-Butylbenzene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| n-Propylbenzene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| o-Xylene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| P & M -Xylene | 60.8 U | 60.8 | 18.2 | ug/kg | 1 | | 07/23/21 18:23 |
| sec-Butylbenzene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| Styrene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| tert-Butylbenzene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| Tetrachloroethene | 15.2 U | 15.2 | 4.74 | ug/kg | 1 | | 07/23/21 18:23 |
| Toluene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| trans-1,2-Dichloroethene | 30.4 U | 30.4 | 9.48 | ug/kg | 1 | | 07/23/21 18:23 |
| trans-1,3-Dichloropropene | 15.2 U | 15.2 | 4.74 | ug/kg | 1 | | 07/23/21 18:23 |
| Trichloroethene | 6.08 U | 6.08 | 1.82 | ug/kg | 1 | | 07/23/21 18:23 |
| Trichlorofluoromethane | 60.8 U | 60.8 | 18.2 | ug/kg | 1 | | 07/23/21 18:23 |
| Vinyl acetate | 122 U | 122 | 37.7 | ug/kg | 1 | | 07/23/21 18:23 |
| Vinyl chloride | 0.973 U | 0.973 | 0.304 | ug/kg | 1 | | 07/23/21 18:23 |
| Xylenes (total) | 91.2 U | 91.2 | 27.7 | ug/kg | 1 | | 07/23/21 18:23 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 111 | 71-136 | | % | 1 | | 07/23/21 18:23 |
| 4-Bromofluorobenzene (surr) | 56.7 | 55-151 | | % | 1 | | 07/23/21 18:23 |
| Toluene-d8 (surr) | 99.7 | 85-116 | | % | 1 | | 07/23/21 18:23 |

Print Date: 08/13/2021 2:31:59PM



Results of TH24-24

Client Sample ID: **TH24-24**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357016
Lab Project ID: 1214357

Collection Date: 07/13/21 20:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):79.1
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20962
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/23/21 18:23
Container ID: 1214357016-B

Prep Batch: VXX37485
Prep Method: SW5035A
Prep Date/Time: 07/13/21 20:40
Prep Initial Wt./Vol.: 91.741 g
Prep Extract Vol: 44.1409 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH25-24

Client Sample ID: TH25-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357017
Lab Project ID: 1214357

Collection Date: 07/13/21 21:41
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):71.5
Location:

Results by Semivolatile Organic Fuels

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|-----------------------|-------------|--------|------|-------|----|------------------|----------------|
| Diesel Range Organics | 5930 | 110 | 34.2 | mg/kg | 4 | | 07/21/21 23:41 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 180 * | 50-150 | | % | 4 | | 07/21/21 23:41 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 23:41
Container ID: 1214357017-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.441 g
Prep Extract Vol: 5 mL

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|--------------------------|-------------|--------|-----|-------|----|------------------|----------------|
| Residual Range Organics | 8060 | 551 | 237 | mg/kg | 4 | | 07/21/21 23:41 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 78.6 | 50-150 | | % | 4 | | 07/21/21 23:41 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 23:41
Container ID: 1214357017-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.441 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH25-24

Client Sample ID: **TH25-24**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357017
Lab Project ID: 1214357

Collection Date: 07/13/21 21:41
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):71.5
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 6.20 U | 6.20 | 1.86 | mg/kg | 1 | | 07/29/21 03:45 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 47.8 * | 50-150 | | % | 1 | | 07/29/21 03:45 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 03:45
Container ID: 1214357017-B

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/13/21 21:41
Prep Initial Wt./Vol.: 41.604 g
Prep Extract Vol: 36.8621 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH25-24

Client Sample ID: TH25-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357017
Lab Project ID: 1214357

Collection Date: 07/13/21 21:41
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):71.5
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

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Results of TH25-24

Client Sample ID: TH25-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357017
Lab Project ID: 1214357

Collection Date: 07/13/21 21:41
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):71.5
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 496 U | 496 | 154 | ug/kg | 1 | | 07/23/21 18:39 |
| Chloroform | 9.92 U | 9.92 | 2.48 | ug/kg | 1 | | 07/23/21 18:39 |
| Chloromethane | 62.0 U | 62.0 | 19.3 | ug/kg | 1 | | 07/23/21 18:39 |
| cis-1,2-Dichloroethene | 62.0 U | 62.0 | 19.3 | ug/kg | 1 | | 07/23/21 18:39 |
| cis-1,3-Dichloropropene | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/23/21 18:39 |
| Dibromochloromethane | 12.4 U | 12.4 | 3.72 | ug/kg | 1 | | 07/23/21 18:39 |
| Dibromomethane | 62.0 U | 62.0 | 19.3 | ug/kg | 1 | | 07/23/21 18:39 |
| Dichlorodifluoromethane | 124 U | 124 | 37.2 | ug/kg | 1 | | 07/23/21 18:39 |
| Ethylbenzene | 62.0 U | 62.0 | 19.3 | ug/kg | 1 | | 07/23/21 18:39 |
| Freon-113 | 248 U | 248 | 76.8 | ug/kg | 1 | | 07/23/21 18:39 |
| Hexachlorobutadiene | 49.6 U | 49.6 | 15.4 | ug/kg | 1 | | 07/23/21 18:39 |
| Isopropylbenzene (Cumene) | 62.0 U | 62.0 | 19.3 | ug/kg | 1 | | 07/23/21 18:39 |
| Methylene chloride | 248 U | 248 | 76.8 | ug/kg | 1 | | 07/23/21 18:39 |
| Methyl-t-butyl ether | 248 U | 248 | 76.8 | ug/kg | 1 | | 07/23/21 18:39 |
| Naphthalene | 62.0 U | 62.0 | 19.3 | ug/kg | 1 | | 07/23/21 18:39 |
| n-Butylbenzene | 62.0 U | 62.0 | 19.3 | ug/kg | 1 | | 07/23/21 18:39 |
| n-Propylbenzene | 62.0 U | 62.0 | 19.3 | ug/kg | 1 | | 07/23/21 18:39 |
| o-Xylene | 174 | 62.0 | 19.3 | ug/kg | 1 | | 07/23/21 18:39 |
| P & M -Xylene | 145 | 124 | 37.2 | ug/kg | 1 | | 07/23/21 18:39 |
| sec-Butylbenzene | 62.0 U | 62.0 | 19.3 | ug/kg | 1 | | 07/23/21 18:39 |
| Styrene | 62.0 U | 62.0 | 19.3 | ug/kg | 1 | | 07/23/21 18:39 |
| tert-Butylbenzene | 62.0 U | 62.0 | 19.3 | ug/kg | 1 | | 07/23/21 18:39 |
| Tetrachloroethene | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/23/21 18:39 |
| Toluene | 91.1 | 62.0 | 19.3 | ug/kg | 1 | | 07/23/21 18:39 |
| trans-1,2-Dichloroethene | 62.0 U | 62.0 | 19.3 | ug/kg | 1 | | 07/23/21 18:39 |
| trans-1,3-Dichloropropene | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/23/21 18:39 |
| Trichloroethene | 12.4 U | 12.4 | 3.72 | ug/kg | 1 | | 07/23/21 18:39 |
| Trichlorofluoromethane | 124 U | 124 | 37.2 | ug/kg | 1 | | 07/23/21 18:39 |
| Vinyl acetate | 248 U | 248 | 76.8 | ug/kg | 1 | | 07/23/21 18:39 |
| Vinyl chloride | 1.98 U | 1.98 | 0.620 | ug/kg | 1 | | 07/23/21 18:39 |
| Xylenes (total) | 319 | 186 | 56.5 | ug/kg | 1 | | 07/23/21 18:39 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 106 | 71-136 | | % | 1 | | 07/23/21 18:39 |
| 4-Bromofluorobenzene (surr) | 58.1 | 55-151 | | % | 1 | | 07/23/21 18:39 |
| Toluene-d8 (surr) | 98.5 | 85-116 | | % | 1 | | 07/23/21 18:39 |

Print Date: 08/13/2021 2:31:59PM



Results of TH25-24

Client Sample ID: **TH25-24**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357017
Lab Project ID: 1214357

Collection Date: 07/13/21 21:41
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):71.5
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20962
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/23/21 18:39
Container ID: 1214357017-B

Prep Batch: VXX37485
Prep Method: SW5035A
Prep Date/Time: 07/13/21 21:41
Prep Initial Wt./Vol.: 41.604 g
Prep Extract Vol: 36.8621 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH25-36

Client Sample ID: TH25-36
Client Project ID: Danger Bay
Lab Sample ID: 1214357018
Lab Project ID: 1214357

Collection Date: 07/13/21 21:44
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):68.7
Location:

Results by Polynuclear Aromatics GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various polynuclear aromatic hydrocarbons and their detection results.

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 18:23
Container ID: 1214357018-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.752 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH25-36

Client Sample ID: TH25-36
Client Project ID: Danger Bay
Lab Sample ID: 1214357018
Lab Project ID: 1214357

Collection Date: 07/13/21 21:44
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):68.7
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 1120 | 29.1 | 9.01 | mg/kg | 1 | | 07/21/21 17:38 |

Surrogates

| | | | | | | | |
|----------------------|-----|--------|--|---|---|--|----------------|
| 5a Androstane (surr) | 116 | 50-150 | | % | 1 | | 07/21/21 17:38 |
|----------------------|-----|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 17:38
Container ID: 1214357018-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.048 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 2380 | 145 | 62.5 | mg/kg | 1 | | 07/21/21 17:38 |

Surrogates

| | | | | | | | |
|--------------------------|------|--------|--|---|---|--|----------------|
| n-Triacontane-d62 (surr) | 95.3 | 50-150 | | % | 1 | | 07/21/21 17:38 |
|--------------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 17:38
Container ID: 1214357018-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.048 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH25-36

Client Sample ID: **TH25-36**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357018
Lab Project ID: 1214357

Collection Date: 07/13/21 21:44
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):68.7
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 5.11 U | 5.11 | 1.53 | mg/kg | 1 | | 07/29/21 04:03 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 57.7 | 50-150 | | % | 1 | | 07/29/21 04:03 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 04:03
Container ID: 1214357018-B

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/13/21 21:44
Prep Initial Wt./Vol.: 64.199 g
Prep Extract Vol: 45.0733 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH25-36

Client Sample ID: TH25-36
Client Project ID: Danger Bay
Lab Sample ID: 1214357018
Lab Project ID: 1214357

Collection Date: 07/13/21 21:44
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):68.7
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 40.9 U | 40.9 | 12.7 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,1,1-Trichloroethane | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,1,2,2-Tetrachloroethane | 4.09 U | 4.09 | 1.27 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,1,2-Trichloroethane | 1.63 U | 1.63 | 0.511 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,1-Dichloroethane | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,1-Dichloroethene | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,1-Dichloropropene | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,2,3-Trichlorobenzene | 102 U | 102 | 30.6 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,2,3-Trichloropropane | 4.09 U | 4.09 | 1.27 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,2,4-Trichlorobenzene | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,2,4-Trimethylbenzene | 102 U | 102 | 30.6 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,2-Dibromo-3-chloropropane | 204 U | 204 | 63.3 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,2-Dibromoethane | 2.04 U | 2.04 | 0.817 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,2-Dichlorobenzene | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,2-Dichloroethane | 4.09 U | 4.09 | 1.43 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,2-Dichloropropane | 20.4 U | 20.4 | 6.33 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,3,5-Trimethylbenzene | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,3-Dichlorobenzene | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,3-Dichloropropane | 20.4 U | 20.4 | 6.33 | ug/kg | 1 | | 07/23/21 18:56 |
| 1,4-Dichlorobenzene | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| 2,2-Dichloropropane | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| 2-Butanone (MEK) | 511 U | 511 | 159 | ug/kg | 1 | | 07/23/21 18:56 |
| 2-Chlorotoluene | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| 2-Hexanone | 204 U | 204 | 63.3 | ug/kg | 1 | | 07/23/21 18:56 |
| 4-Chlorotoluene | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| 4-Isopropyltoluene | 204 U | 204 | 51.1 | ug/kg | 1 | | 07/23/21 18:56 |
| 4-Methyl-2-pentanone (MIBK) | 511 U | 511 | 159 | ug/kg | 1 | | 07/23/21 18:56 |
| Acetone | 511 U | 511 | 159 | ug/kg | 1 | | 07/23/21 18:56 |
| Benzene | 389 | 25.5 | 7.97 | ug/kg | 1 | | 07/23/21 18:56 |
| Bromobenzene | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| Bromochloromethane | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| Bromodichloromethane | 4.09 U | 4.09 | 1.27 | ug/kg | 1 | | 07/23/21 18:56 |
| Bromoform | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |
| Bromomethane | 40.9 U | 40.9 | 12.7 | ug/kg | 1 | | 07/23/21 18:56 |
| Carbon disulfide | 204 U | 204 | 63.3 | ug/kg | 1 | | 07/23/21 18:56 |
| Carbon tetrachloride | 25.5 U | 25.5 | 7.97 | ug/kg | 1 | | 07/23/21 18:56 |
| Chlorobenzene | 51.1 U | 51.1 | 15.9 | ug/kg | 1 | | 07/23/21 18:56 |

Print Date: 08/13/2021 2:31:59PM



Results of TH25-36

Client Sample ID: TH25-36
Client Project ID: Danger Bay
Lab Sample ID: 1214357018
Lab Project ID: 1214357

Collection Date: 07/13/21 21:44
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):68.7
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH25-36

Client Sample ID: **TH25-36**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357018
Lab Project ID: 1214357

Collection Date: 07/13/21 21:44
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):68.7
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20962
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/23/21 18:56
Container ID: 1214357018-B

Prep Batch: VXX37485
Prep Method: SW5035A
Prep Date/Time: 07/13/21 21:44
Prep Initial Wt./Vol.: 64.199 g
Prep Extract Vol: 45.0733 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH25-96

Client Sample ID: **TH25-96**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357019
Lab Project ID: 1214357

Collection Date: 07/13/21 21:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):64.8
Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| 2-Methylnaphthalene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Acenaphthene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Acenaphthylene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Anthracene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Benzo(a)Anthracene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Benzo[a]pyrene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Benzo[b]Fluoranthene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Benzo[g,h,i]perylene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Benzo[k]fluoranthene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Chrysene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Dibenzo[a,h]anthracene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Fluoranthene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Fluorene | 78.1 | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Indeno[1,2,3-c,d] pyrene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Naphthalene | 61.8 U | 61.8 | 15.4 | ug/kg | 2 | | 07/27/21 16:40 |
| Phenanthrene | 88.6 | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Pyrene | 77.2 U | 77.2 | 19.3 | ug/kg | 2 | | 07/27/21 16:40 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 90.8 | 58-103 | | % | 2 | | 07/27/21 16:40 |
| Fluoranthene-d10 (surr) | 84.9 | 54-113 | | % | 2 | | 07/27/21 16:40 |

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 16:40
Container ID: 1214357019-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.508 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH25-96

Client Sample ID: TH25-96
Client Project ID: Danger Bay
Lab Sample ID: 1214357019
Lab Project ID: 1214357

Collection Date: 07/13/21 21:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):64.8
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 1430 | 30.9 | 9.57 | mg/kg | 1 | | 07/21/21 17:48 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 104 | 50-150 | | % | 1 | | 07/21/21 17:48 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 17:48
Container ID: 1214357019-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.028 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 2110 | 154 | 66.3 | mg/kg | 1 | | 07/21/21 17:48 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 93.2 | 50-150 | | % | 1 | | 07/21/21 17:48 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 17:48
Container ID: 1214357019-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.028 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH25-96

Client Sample ID: **TH25-96**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357019
Lab Project ID: 1214357

Collection Date: 07/13/21 21:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):64.8
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 5.61 U | 5.61 | 1.68 | mg/kg | 1 | | 07/29/21 04:21 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 67.8 | 50-150 | | % | 1 | | 07/29/21 04:21 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 04:21
Container ID: 1214357019-B

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/13/21 21:47
Prep Initial Wt./Vol.: 66.922 g
Prep Extract Vol: 48.5892 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH25-96

Client Sample ID: TH25-96
Client Project ID: Danger Bay
Lab Sample ID: 1214357019
Lab Project ID: 1214357

Collection Date: 07/13/21 21:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):64.8
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH25-96

Client Sample ID: TH25-96
Client Project ID: Danger Bay
Lab Sample ID: 1214357019
Lab Project ID: 1214357

Collection Date: 07/13/21 21:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):64.8
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

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Results of **TH25-96**

Client Sample ID: **TH25-96**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357019
Lab Project ID: 1214357

Collection Date: 07/13/21 21:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):64.8
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS20962
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/23/21 19:12
Container ID: 1214357019-B

Prep Batch: VXX37485
Prep Method: SW5035A
Prep Date/Time: 07/13/21 21:47
Prep Initial Wt./Vol.: 66.922 g
Prep Extract Vol: 48.5892 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27-0

Client Sample ID: TH27-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357020
Lab Project ID: 1214357

Collection Date: 07/14/21 10:50
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):86.5
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 23.1 U | 23.1 | 7.15 | mg/kg | 1 | | 07/21/21 17:58 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 98.1 | 50-150 | | % | 1 | | 07/21/21 17:58 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 17:58
Container ID: 1214357020-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.091 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 115 U | 115 | 49.6 | mg/kg | 1 | | 07/21/21 17:58 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 100 | 50-150 | | % | 1 | | 07/21/21 17:58 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 17:58
Container ID: 1214357020-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.091 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27-0

Client Sample ID: **TH27-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357020
Lab Project ID: 1214357

Collection Date: 07/14/21 10:50
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):86.5
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 3.16 U | 3.16 | 0.949 | mg/kg | 1 | | 07/29/21 04:57 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 73.7 | 50-150 | | % | 1 | | 07/29/21 04:57 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 04:57
Container ID: 1214357020-B

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/14/21 10:50
Prep Initial Wt./Vol.: 60.675 g
Prep Extract Vol: 33.19 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27-0

Client Sample ID: TH27-0
Client Project ID: Danger Bay
Lab Sample ID: 1214357020
Lab Project ID: 1214357

Collection Date: 07/14/21 10:50
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):86.5
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

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Results of TH27-0

Client Sample ID: **TH27-0**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357020
 Lab Project ID: 1214357

Collection Date: 07/14/21 10:50
 Received Date: 07/16/21 15:44
 Matrix: Soil/Solid (dry weight)
 Solids (%):86.5
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 253 U | 253 | 78.4 | ug/kg | 1 | | 07/25/21 17:36 |
| Chloroform | 5.06 U | 5.06 | 1.26 | ug/kg | 1 | | 07/25/21 17:36 |
| Chloromethane | 31.6 U | 31.6 | 9.86 | ug/kg | 1 | | 07/25/21 17:36 |
| cis-1,2-Dichloroethene | 31.6 U | 31.6 | 9.86 | ug/kg | 1 | | 07/25/21 17:36 |
| cis-1,3-Dichloropropene | 15.8 U | 15.8 | 4.93 | ug/kg | 1 | | 07/25/21 17:36 |
| Dibromochloromethane | 6.32 U | 6.32 | 1.90 | ug/kg | 1 | | 07/25/21 17:36 |
| Dibromomethane | 31.6 U | 31.6 | 9.86 | ug/kg | 1 | | 07/25/21 17:36 |
| Dichlorodifluoromethane | 63.2 U | 63.2 | 19.0 | ug/kg | 1 | | 07/25/21 17:36 |
| Ethylbenzene | 31.6 U | 31.6 | 9.86 | ug/kg | 1 | | 07/25/21 17:36 |
| Freon-113 | 126 U | 126 | 39.2 | ug/kg | 1 | | 07/25/21 17:36 |
| Hexachlorobutadiene | 25.3 U | 25.3 | 7.84 | ug/kg | 1 | | 07/25/21 17:36 |
| Isopropylbenzene (Cumene) | 31.6 U | 31.6 | 9.86 | ug/kg | 1 | | 07/25/21 17:36 |
| Methylene chloride | 126 U | 126 | 39.2 | ug/kg | 1 | | 07/25/21 17:36 |
| Methyl-t-butyl ether | 126 U | 126 | 39.2 | ug/kg | 1 | | 07/25/21 17:36 |
| Naphthalene | 31.6 U | 31.6 | 9.86 | ug/kg | 1 | | 07/25/21 17:36 |
| n-Butylbenzene | 31.6 U | 31.6 | 9.86 | ug/kg | 1 | | 07/25/21 17:36 |
| n-Propylbenzene | 31.6 U | 31.6 | 9.86 | ug/kg | 1 | | 07/25/21 17:36 |
| o-Xylene | 31.6 U | 31.6 | 9.86 | ug/kg | 1 | | 07/25/21 17:36 |
| P & M -Xylene | 63.2 U | 63.2 | 19.0 | ug/kg | 1 | | 07/25/21 17:36 |
| sec-Butylbenzene | 31.6 U | 31.6 | 9.86 | ug/kg | 1 | | 07/25/21 17:36 |
| Styrene | 31.6 U | 31.6 | 9.86 | ug/kg | 1 | | 07/25/21 17:36 |
| tert-Butylbenzene | 31.6 U | 31.6 | 9.86 | ug/kg | 1 | | 07/25/21 17:36 |
| Tetrachloroethene | 15.8 U | 15.8 | 4.93 | ug/kg | 1 | | 07/25/21 17:36 |
| Toluene | 31.6 U | 31.6 | 9.86 | ug/kg | 1 | | 07/25/21 17:36 |
| trans-1,2-Dichloroethene | 31.6 U | 31.6 | 9.86 | ug/kg | 1 | | 07/25/21 17:36 |
| trans-1,3-Dichloropropene | 15.8 U | 15.8 | 4.93 | ug/kg | 1 | | 07/25/21 17:36 |
| Trichloroethene | 6.32 U | 6.32 | 1.90 | ug/kg | 1 | | 07/25/21 17:36 |
| Trichlorofluoromethane | 63.2 U | 63.2 | 19.0 | ug/kg | 1 | | 07/25/21 17:36 |
| Vinyl acetate | 126 U | 126 | 39.2 | ug/kg | 1 | | 07/25/21 17:36 |
| Vinyl chloride | 1.01 U | 1.01 | 0.316 | ug/kg | 1 | | 07/25/21 17:36 |
| Xylenes (total) | 94.9 U | 94.9 | 28.8 | ug/kg | 1 | | 07/25/21 17:36 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 109 | 71-136 | | % | 1 | | 07/25/21 17:36 |
| 4-Bromofluorobenzene (surr) | 93.8 | 55-151 | | % | 1 | | 07/25/21 17:36 |
| Toluene-d8 (surr) | 97.4 | 85-116 | | % | 1 | | 07/25/21 17:36 |

Print Date: 08/13/2021 2:31:59PM



Results of **TH27-0**

Client Sample ID: **TH27-0**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357020
Lab Project ID: 1214357

Collection Date: 07/14/21 10:50
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):86.5
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS20967
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/25/21 17:36
Container ID: 1214357020-B

Prep Batch: VXX37499
Prep Method: SW5035A
Prep Date/Time: 07/14/21 10:50
Prep Initial Wt./Vol.: 60.675 g
Prep Extract Vol: 33.19 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27-24

Client Sample ID: TH27-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357021
Lab Project ID: 1214357

Collection Date: 07/14/21 11:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.2
Location:

Results by Polynuclear Aromatics GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various polynuclear aromatic hydrocarbons and their surrogate compounds with associated quality and detection data.

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 18:43
Container ID: 1214357021-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.55 g
Prep Extract Vol: 5 mL



Results of TH27-24

Client Sample ID: TH27-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357021
Lab Project ID: 1214357

Collection Date: 07/14/21 11:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.2
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 252 | 22.8 | 7.06 | mg/kg | 1 | | 07/21/21 18:09 |

Surrogates

| | | | | | | | |
|----------------------|-----|--------|--|---|---|--|----------------|
| 5a Androstane (surr) | 100 | 50-150 | | % | 1 | | 07/21/21 18:09 |
|----------------------|-----|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 18:09
Container ID: 1214357021-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.187 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 114 U | 114 | 49.0 | mg/kg | 1 | | 07/21/21 18:09 |

Surrogates

| | | | | | | | |
|--------------------------|------|--------|--|---|---|--|----------------|
| n-Triacontane-d62 (surr) | 97.8 | 50-150 | | % | 1 | | 07/21/21 18:09 |
|--------------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 18:09
Container ID: 1214357021-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.187 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27-24

Client Sample ID: **TH27-24**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357021
Lab Project ID: 1214357

Collection Date: 07/14/21 11:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.2
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.24 U | 2.24 | 0.672 | mg/kg | 1 | | 07/29/21 05:14 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 84.5 | 50-150 | | % | 1 | | 07/29/21 05:14 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 05:14
Container ID: 1214357021-B

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/14/21 11:00
Prep Initial Wt./Vol.: 94.928 g
Prep Extract Vol: 37.1192 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27-24

Client Sample ID: TH27-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357021
Lab Project ID: 1214357

Collection Date: 07/14/21 11:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.2
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 17.9 U | 17.9 | 5.56 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,1,1-Trichloroethane | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,1,2,2-Tetrachloroethane | 1.79 U | 1.79 | 0.556 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,1,2-Trichloroethane | 0.717 U | 0.717 | 0.224 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,1-Dichloroethane | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,1-Dichloroethene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,1-Dichloropropene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,2,3-Trichlorobenzene | 44.8 U | 44.8 | 13.4 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,2,3-Trichloropropane | 1.79 U | 1.79 | 0.556 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,2,4-Trichlorobenzene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,2,4-Trimethylbenzene | 44.8 U | 44.8 | 13.4 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,2-Dibromo-3-chloropropane | 89.7 U | 89.7 | 27.8 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,2-Dibromoethane | 0.897 U | 0.897 | 0.359 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,2-Dichlorobenzene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,2-Dichloroethane | 1.79 U | 1.79 | 0.628 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,2-Dichloropropane | 8.97 U | 8.97 | 2.78 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,3,5-Trimethylbenzene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,3-Dichlorobenzene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,3-Dichloropropane | 8.97 U | 8.97 | 2.78 | ug/kg | 1 | | 07/25/21 17:52 |
| 1,4-Dichlorobenzene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| 2,2-Dichloropropane | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| 2-Butanone (MEK) | 224 U | 224 | 69.9 | ug/kg | 1 | | 07/25/21 17:52 |
| 2-Chlorotoluene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| 2-Hexanone | 89.7 U | 89.7 | 27.8 | ug/kg | 1 | | 07/25/21 17:52 |
| 4-Chlorotoluene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| 4-Isopropyltoluene | 89.7 U | 89.7 | 22.4 | ug/kg | 1 | | 07/25/21 17:52 |
| 4-Methyl-2-pentanone (MIBK) | 224 U | 224 | 69.9 | ug/kg | 1 | | 07/25/21 17:52 |
| Acetone | 224 U | 224 | 69.9 | ug/kg | 1 | | 07/25/21 17:52 |
| Benzene | 11.2 U | 11.2 | 3.50 | ug/kg | 1 | | 07/25/21 17:52 |
| Bromobenzene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| Bromochloromethane | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| Bromodichloromethane | 1.79 U | 1.79 | 0.556 | ug/kg | 1 | | 07/25/21 17:52 |
| Bromoform | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| Bromomethane | 17.9 U | 17.9 | 5.56 | ug/kg | 1 | | 07/25/21 17:52 |
| Carbon disulfide | 89.7 U | 89.7 | 27.8 | ug/kg | 1 | | 07/25/21 17:52 |
| Carbon tetrachloride | 11.2 U | 11.2 | 3.50 | ug/kg | 1 | | 07/25/21 17:52 |
| Chlorobenzene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |

Print Date: 08/13/2021 2:31:59PM



Results of TH27-24

Client Sample ID: TH27-24
Client Project ID: Danger Bay
Lab Sample ID: 1214357021
Lab Project ID: 1214357

Collection Date: 07/14/21 11:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.2
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 179 U | 179 | 55.6 | ug/kg | 1 | | 07/25/21 17:52 |
| Chloroform | 3.59 U | 3.59 | 0.897 | ug/kg | 1 | | 07/25/21 17:52 |
| Chloromethane | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| cis-1,2-Dichloroethene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| cis-1,3-Dichloropropene | 11.2 U | 11.2 | 3.50 | ug/kg | 1 | | 07/25/21 17:52 |
| Dibromochloromethane | 4.48 U | 4.48 | 1.34 | ug/kg | 1 | | 07/25/21 17:52 |
| Dibromomethane | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| Dichlorodifluoromethane | 44.8 U | 44.8 | 13.4 | ug/kg | 1 | | 07/25/21 17:52 |
| Ethylbenzene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| Freon-113 | 89.7 U | 89.7 | 27.8 | ug/kg | 1 | | 07/25/21 17:52 |
| Hexachlorobutadiene | 17.9 U | 17.9 | 5.56 | ug/kg | 1 | | 07/25/21 17:52 |
| Isopropylbenzene (Cumene) | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| Methylene chloride | 89.7 U | 89.7 | 27.8 | ug/kg | 1 | | 07/25/21 17:52 |
| Methyl-t-butyl ether | 89.7 U | 89.7 | 27.8 | ug/kg | 1 | | 07/25/21 17:52 |
| Naphthalene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| n-Butylbenzene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| n-Propylbenzene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| o-Xylene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| P & M -Xylene | 44.8 U | 44.8 | 13.4 | ug/kg | 1 | | 07/25/21 17:52 |
| sec-Butylbenzene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| Styrene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| tert-Butylbenzene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| Tetrachloroethene | 11.2 U | 11.2 | 3.50 | ug/kg | 1 | | 07/25/21 17:52 |
| Toluene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| trans-1,2-Dichloroethene | 22.4 U | 22.4 | 6.99 | ug/kg | 1 | | 07/25/21 17:52 |
| trans-1,3-Dichloropropene | 11.2 U | 11.2 | 3.50 | ug/kg | 1 | | 07/25/21 17:52 |
| Trichloroethene | 4.48 U | 4.48 | 1.34 | ug/kg | 1 | | 07/25/21 17:52 |
| Trichlorofluoromethane | 44.8 U | 44.8 | 13.4 | ug/kg | 1 | | 07/25/21 17:52 |
| Vinyl acetate | 89.7 U | 89.7 | 27.8 | ug/kg | 1 | | 07/25/21 17:52 |
| Vinyl chloride | 0.717 U | 0.717 | 0.224 | ug/kg | 1 | | 07/25/21 17:52 |
| Xylenes (total) | 67.2 U | 67.2 | 20.4 | ug/kg | 1 | | 07/25/21 17:52 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 107 | 71-136 | | % | 1 | | 07/25/21 17:52 |
| 4-Bromofluorobenzene (surr) | 105 | 55-151 | | % | 1 | | 07/25/21 17:52 |
| Toluene-d8 (surr) | 99.4 | 85-116 | | % | 1 | | 07/25/21 17:52 |

Print Date: 08/13/2021 2:31:59PM



Results of TH27-24

Client Sample ID: **TH27-24**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357021
Lab Project ID: 1214357

Collection Date: 07/14/21 11:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):87.2
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20967
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/25/21 17:52
Container ID: 1214357021-B

Prep Batch: VXX37499
Prep Method: SW5035A
Prep Date/Time: 07/14/21 11:00
Prep Initial Wt./Vol.: 94.928 g
Prep Extract Vol: 37.1192 mL

Print Date: 08/13/2021 2:31:59PM



Results of S1

Client Sample ID: S1
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357022
Lab Project ID: 1214357

Collection Date: 07/15/21 08:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):69.9
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 9.07 | 1.41 | 0.436 | mg/kg | 10 | | 07/28/21 00:10 |
| Barium | 23.1 | 0.422 | 0.132 | mg/kg | 10 | | 07/28/21 00:10 |
| Cadmium | 0.281 U | 0.281 | 0.0872 | mg/kg | 10 | | 07/28/21 00:10 |
| Chromium | 18.6 | 1.41 | 0.436 | mg/kg | 10 | | 07/28/21 00:10 |
| Lead | 13.7 | 0.281 | 0.0872 | mg/kg | 10 | | 07/28/21 00:10 |
| Mercury | 0.422 U | 0.422 | 0.141 | mg/kg | 10 | | 07/28/21 00:10 |
| Selenium | 2.81 U | 2.81 | 0.872 | mg/kg | 10 | | 07/28/21 00:10 |
| Silver | 0.703 U | 0.703 | 0.211 | mg/kg | 10 | | 07/28/21 00:10 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 00:10
Container ID: 1214357022-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.017 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of S1

Client Sample ID: **S1**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357022
 Lab Project ID: 1214357

Collection Date: 07/15/21 08:40
 Received Date: 07/16/21 15:44
 Matrix: Soil/Solid (dry weight)
 Solids (%):69.9
 Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 70.9 U | 70.9 | 17.7 | ug/kg | 1 | | 07/21/21 11:32 |
| Aroclor-1221 | 142 U | 142 | 35.5 | ug/kg | 1 | | 07/21/21 11:32 |
| Aroclor-1232 | 70.9 U | 70.9 | 17.7 | ug/kg | 1 | | 07/21/21 11:32 |
| Aroclor-1242 | 70.9 U | 70.9 | 17.7 | ug/kg | 1 | | 07/21/21 11:32 |
| Aroclor-1248 | 70.9 U | 70.9 | 17.7 | ug/kg | 1 | | 07/21/21 11:32 |
| Aroclor-1254 | 70.9 U | 70.9 | 17.7 | ug/kg | 1 | | 07/21/21 11:32 |
| Aroclor-1260 | 70.9 U | 70.9 | 17.7 | ug/kg | 1 | | 07/21/21 11:32 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 65 | 60-125 | | % | 1 | | 07/21/21 11:32 |

Batch Information

Analytical Batch: XGC10936
 Analytical Method: SW8082A
 Analyst: CDM
 Analytical Date/Time: 07/21/21 11:32
 Container ID: 1214357022-A

Prep Batch: XXX45197
 Prep Method: SW3550C
 Prep Date/Time: 07/20/21 12:02
 Prep Initial Wt./Vol.: 22.684 g
 Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S1

Client Sample ID: S1
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357022
 Lab Project ID: 1214357

Collection Date: 07/15/21 08:40
 Received Date: 07/16/21 15:44
 Matrix: Soil/Solid (dry weight)
 Solids (%):69.9
 Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| 2-Methylnaphthalene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Acenaphthene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Acenaphthylene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Anthracene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Benzo(a)Anthracene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Benzo[a]pyrene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Benzo[b]Fluoranthene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Benzo[g,h,i]perylene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Benzo[k]fluoranthene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Chrysene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Dibenzo[a,h]anthracene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Fluoranthene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Fluorene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Indeno[1,2,3-c,d] pyrene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Naphthalene | 28.5 U | 28.5 | 7.12 | ug/kg | 1 | | 07/27/21 19:04 |
| Phenanthrene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Pyrene | 35.6 U | 35.6 | 8.90 | ug/kg | 1 | | 07/27/21 19:04 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 85.9 | 58-103 | | % | 1 | | 07/27/21 19:04 |
| Fluoranthene-d10 (surr) | 80.5 | 54-113 | | % | 1 | | 07/27/21 19:04 |

Batch Information

Analytical Batch: XMS12782
 Analytical Method: 8270D SIM (PAH)
 Analyst: LAW
 Analytical Date/Time: 07/27/21 19:04
 Container ID: 1214357022-A

Prep Batch: XXX45216
 Prep Method: SW3550C
 Prep Date/Time: 07/23/21 12:00
 Prep Initial Wt./Vol.: 22.604 g
 Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S1

Client Sample ID: **S1**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357022
Lab Project ID: 1214357

Collection Date: 07/15/21 08:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):69.9
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 60.2 | 28.3 | 8.78 | mg/kg | 1 | | 07/21/21 18:19 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 80.8 | 50-150 | | % | 1 | | 07/21/21 18:19 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 18:19
Container ID: 1214357022-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.303 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 216 | 142 | 60.9 | mg/kg | 1 | | 07/21/21 18:19 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 81.8 | 50-150 | | % | 1 | | 07/21/21 18:19 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 18:19
Container ID: 1214357022-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.303 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S1

Client Sample ID: S1
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357022
Lab Project ID: 1214357

Collection Date: 07/15/21 08:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):69.9
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 3.91 U | 3.91 | 1.17 | mg/kg | 1 | | 07/29/21 05:32 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 53.3 | 50-150 | | % | 1 | | 07/29/21 05:32 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 05:32
Container ID: 1214357022-C

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/15/21 08:40
Prep Initial Wt./Vol.: 101.615 g
Prep Extract Vol: 55.5673 mL

Print Date: 08/13/2021 2:31:59PM



Results of S1

Client Sample ID: S1
Client Project ID: Danger Bay
Lab Sample ID: 1214357022
Lab Project ID: 1214357

Collection Date: 07/15/21 08:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):69.9
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of S1

Client Sample ID: S1
Client Project ID: Danger Bay
Lab Sample ID: 1214357022
Lab Project ID: 1214357

Collection Date: 07/15/21 08:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):69.9
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of S1

Client Sample ID: **S1**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357022
Lab Project ID: 1214357

Collection Date: 07/15/21 08:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):69.9
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20967
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/25/21 18:09
Container ID: 1214357022-C

Prep Batch: VXX37499
Prep Method: SW5035A
Prep Date/Time: 07/15/21 08:40
Prep Initial Wt./Vol.: 101.615 g
Prep Extract Vol: 55.5673 mL

Print Date: 08/13/2021 2:31:59PM



Results of S1

Client Sample ID: S1
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357022
Lab Project ID: 1214357

Collection Date: 07/15/21 08:40
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):69.9
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.196 U | 0.196 | 0.0485 | ug/kg | 1 | | 07/26/21 22:44 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 74 | 55-151 | | % | 1 | | 07/26/21 22:44 |
| Toluene-d8 (surr) | 102 | 85-116 | | % | 1 | | 07/26/21 22:44 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/26/21 22:44
Container ID: 1214357022-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/15/21 08:40
Prep Initial Wt./Vol.: 101.615 g
Prep Extract Vol: 55.5673 mL

Print Date: 08/13/2021 2:31:59PM



Results of S5

Client Sample ID: **S5**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357023
Lab Project ID: 1214357

Collection Date: 07/15/21 09:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):86.8
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 8.35 | 1.15 | 0.356 | mg/kg | 10 | | 07/28/21 00:14 |
| Barium | 19.8 | 0.344 | 0.108 | mg/kg | 10 | | 07/28/21 00:14 |
| Cadmium | 0.229 U | 0.229 | 0.0711 | mg/kg | 10 | | 07/28/21 00:14 |
| Chromium | 24.8 | 1.15 | 0.356 | mg/kg | 10 | | 07/28/21 00:14 |
| Lead | 18.6 | 0.229 | 0.0711 | mg/kg | 10 | | 07/28/21 00:14 |
| Mercury | 0.344 U | 0.344 | 0.115 | mg/kg | 10 | | 07/28/21 00:14 |
| Selenium | 2.29 U | 2.29 | 0.711 | mg/kg | 10 | | 07/28/21 00:14 |
| Silver | 0.574 U | 0.574 | 0.172 | mg/kg | 10 | | 07/28/21 00:14 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 00:14
Container ID: 1214357023-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.004 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of S5

Client Sample ID: **S5**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357023
 Lab Project ID: 1214357

Collection Date: 07/15/21 09:00
 Received Date: 07/16/21 15:44
 Matrix: Soil/Solid (dry weight)
 Solids (%):86.8
 Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 57.5 U | 57.5 | 14.4 | ug/kg | 1 | | 07/21/21 11:53 |
| Aroclor-1221 | 115 U | 115 | 28.8 | ug/kg | 1 | | 07/21/21 11:53 |
| Aroclor-1232 | 57.5 U | 57.5 | 14.4 | ug/kg | 1 | | 07/21/21 11:53 |
| Aroclor-1242 | 57.5 U | 57.5 | 14.4 | ug/kg | 1 | | 07/21/21 11:53 |
| Aroclor-1248 | 57.5 U | 57.5 | 14.4 | ug/kg | 1 | | 07/21/21 11:53 |
| Aroclor-1254 | 57.5 U | 57.5 | 14.4 | ug/kg | 1 | | 07/21/21 11:53 |
| Aroclor-1260 | 57.5 U | 57.5 | 14.4 | ug/kg | 1 | | 07/21/21 11:53 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 67.5 | 60-125 | | % | 1 | | 07/21/21 11:53 |

Batch Information

Analytical Batch: XGC10936
 Analytical Method: SW8082A
 Analyst: CDM
 Analytical Date/Time: 07/21/21 11:53
 Container ID: 1214357023-A

Prep Batch: XXX45197
 Prep Method: SW3550C
 Prep Date/Time: 07/20/21 12:02
 Prep Initial Wt./Vol.: 22.535 g
 Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S5

Client Sample ID: **S5**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357023
Lab Project ID: 1214357

Collection Date: 07/15/21 09:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):86.8
Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| 2-Methylnaphthalene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Acenaphthene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Acenaphthylene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Anthracene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Benzo(a)Anthracene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Benzo[a]pyrene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Benzo[b]Fluoranthene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Benzo[g,h,i]perylene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Benzo[k]fluoranthene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Chrysene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Dibenzo[a,h]anthracene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Fluoranthene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Fluorene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Indeno[1,2,3-c,d] pyrene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Naphthalene | 22.7 U | 22.7 | 5.67 | ug/kg | 1 | | 07/27/21 19:25 |
| Phenanthrene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Pyrene | 28.4 U | 28.4 | 7.09 | ug/kg | 1 | | 07/27/21 19:25 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 80.7 | 58-103 | | % | 1 | | 07/27/21 19:25 |
| Fluoranthene-d10 (surr) | 75.8 | 54-113 | | % | 1 | | 07/27/21 19:25 |

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 19:25
Container ID: 1214357023-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.857 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S5

Client Sample ID: **S5**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357023
Lab Project ID: 1214357

Collection Date: 07/15/21 09:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):86.8
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 89.3 | 22.9 | 7.10 | mg/kg | 1 | | 07/21/21 18:29 |

Surrogates

| | | | | | | | |
|----------------------|------|--------|--|---|---|--|----------------|
| 5a Androstane (surr) | 88.9 | 50-150 | | % | 1 | | 07/21/21 18:29 |
|----------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 18:29
Container ID: 1214357023-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.186 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 225 | 114 | 49.2 | mg/kg | 1 | | 07/21/21 18:29 |

Surrogates

| | | | | | | | |
|--------------------------|------|--------|--|---|---|--|----------------|
| n-Triacontane-d62 (surr) | 91.6 | 50-150 | | % | 1 | | 07/21/21 18:29 |
|--------------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 18:29
Container ID: 1214357023-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.186 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S5

Client Sample ID: **S5**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357023
Lab Project ID: 1214357

Collection Date: 07/15/21 09:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):86.8
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.17 U | 2.17 | 0.650 | mg/kg | 1 | | 07/29/21 05:50 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 66.9 | 50-150 | | % | 1 | | 07/29/21 05:50 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 05:50
Container ID: 1214357023-C

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:00
Prep Initial Wt./Vol.: 102.404 g
Prep Extract Vol: 38.5149 mL

Print Date: 08/13/2021 2:31:59PM



Results of S5

Client Sample ID: S5
Client Project ID: Danger Bay
Lab Sample ID: 1214357023
Lab Project ID: 1214357

Collection Date: 07/15/21 09:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):86.8
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 17.3 U | 17.3 | 5.37 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,1,1-Trichloroethane | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,1,2,2-Tetrachloroethane | 1.73 U | 1.73 | 0.537 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,1,2-Trichloroethane | 0.693 U | 0.693 | 0.217 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,1-Dichloroethane | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,1-Dichloroethene | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,1-Dichloropropene | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,2,3-Trichlorobenzene | 43.3 U | 43.3 | 13.0 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,2,3-Trichloropropane | 1.73 U | 1.73 | 0.537 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,2,4-Trichlorobenzene | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,2,4-Trimethylbenzene | 43.3 U | 43.3 | 13.0 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,2-Dibromo-3-chloropropane | 86.7 U | 86.7 | 26.9 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,2-Dibromoethane | 0.867 U | 0.867 | 0.347 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,2-Dichlorobenzene | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,2-Dichloroethane | 1.73 U | 1.73 | 0.607 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,2-Dichloropropane | 8.67 U | 8.67 | 2.69 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,3,5-Trimethylbenzene | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,3-Dichlorobenzene | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,3-Dichloropropane | 8.67 U | 8.67 | 2.69 | ug/kg | 1 | | 07/25/21 18:25 |
| 1,4-Dichlorobenzene | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| 2,2-Dichloropropane | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| 2-Butanone (MEK) | 217 U | 217 | 67.6 | ug/kg | 1 | | 07/25/21 18:25 |
| 2-Chlorotoluene | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| 2-Hexanone | 86.7 U | 86.7 | 26.9 | ug/kg | 1 | | 07/25/21 18:25 |
| 4-Chlorotoluene | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| 4-Isopropyltoluene | 86.7 U | 86.7 | 21.7 | ug/kg | 1 | | 07/25/21 18:25 |
| 4-Methyl-2-pentanone (MIBK) | 217 U | 217 | 67.6 | ug/kg | 1 | | 07/25/21 18:25 |
| Acetone | 217 U | 217 | 67.6 | ug/kg | 1 | | 07/25/21 18:25 |
| Benzene | 10.8 U | 10.8 | 3.38 | ug/kg | 1 | | 07/25/21 18:25 |
| Bromobenzene | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| Bromochloromethane | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| Bromodichloromethane | 1.73 U | 1.73 | 0.537 | ug/kg | 1 | | 07/25/21 18:25 |
| Bromoform | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |
| Bromomethane | 17.3 U | 17.3 | 5.37 | ug/kg | 1 | | 07/25/21 18:25 |
| Carbon disulfide | 86.7 U | 86.7 | 26.9 | ug/kg | 1 | | 07/25/21 18:25 |
| Carbon tetrachloride | 10.8 U | 10.8 | 3.38 | ug/kg | 1 | | 07/25/21 18:25 |
| Chlorobenzene | 21.7 U | 21.7 | 6.76 | ug/kg | 1 | | 07/25/21 18:25 |

Print Date: 08/13/2021 2:31:59PM



Results of S5

Client Sample ID: S5
Client Project ID: Danger Bay
Lab Sample ID: 1214357023
Lab Project ID: 1214357

Collection Date: 07/15/21 09:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):86.8
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of S5

Client Sample ID: **S5**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357023
Lab Project ID: 1214357

Collection Date: 07/15/21 09:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):86.8
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20967
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/25/21 18:25
Container ID: 1214357023-C

Prep Batch: VXX37499
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:00
Prep Initial Wt./Vol.: 102.404 g
Prep Extract Vol: 38.5149 mL

Print Date: 08/13/2021 2:31:59PM



Results of S5

Client Sample ID: **S5**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357023
Lab Project ID: 1214357

Collection Date: 07/15/21 09:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):86.8
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.108 U | 0.108 | 0.0269 | ug/kg | 1 | | 07/26/21 22:59 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 92 | 55-151 | | % | 1 | | 07/26/21 22:59 |
| Toluene-d8 (surr) | 100 | 85-116 | | % | 1 | | 07/26/21 22:59 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/26/21 22:59
Container ID: 1214357023-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:00
Prep Initial Wt./Vol.: 102.404 g
Prep Extract Vol: 38.5149 mL

Print Date: 08/13/2021 2:31:59PM



Results of S8

Client Sample ID: **S8**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357024
Lab Project ID: 1214357

Collection Date: 07/15/21 08:55
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.7
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 11.7 | 1.16 | 0.359 | mg/kg | 10 | | 07/28/21 00:18 |
| Barium | 27.7 | 0.348 | 0.109 | mg/kg | 10 | | 07/28/21 00:18 |
| Cadmium | 0.232 U | 0.232 | 0.0718 | mg/kg | 10 | | 07/28/21 00:18 |
| Chromium | 29.4 | 1.16 | 0.359 | mg/kg | 10 | | 07/28/21 00:18 |
| Lead | 15.8 | 0.232 | 0.0718 | mg/kg | 10 | | 07/28/21 00:18 |
| Mercury | 0.348 U | 0.348 | 0.116 | mg/kg | 10 | | 07/28/21 00:18 |
| Selenium | 2.32 U | 2.32 | 0.718 | mg/kg | 10 | | 07/28/21 00:18 |
| Silver | 0.579 U | 0.579 | 0.174 | mg/kg | 10 | | 07/28/21 00:18 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 00:18
Container ID: 1214357024-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.007 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of S8

Client Sample ID: **S8**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357024
Lab Project ID: 1214357

Collection Date: 07/15/21 08:55
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.7
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 57.3 U | 57.3 | 14.3 | ug/kg | 1 | | 07/21/21 12:03 |
| Aroclor-1221 | 115 U | 115 | 28.6 | ug/kg | 1 | | 07/21/21 12:03 |
| Aroclor-1232 | 57.3 U | 57.3 | 14.3 | ug/kg | 1 | | 07/21/21 12:03 |
| Aroclor-1242 | 57.3 U | 57.3 | 14.3 | ug/kg | 1 | | 07/21/21 12:03 |
| Aroclor-1248 | 57.3 U | 57.3 | 14.3 | ug/kg | 1 | | 07/21/21 12:03 |
| Aroclor-1254 | 57.3 U | 57.3 | 14.3 | ug/kg | 1 | | 07/21/21 12:03 |
| Aroclor-1260 | 57.3 U | 57.3 | 14.3 | ug/kg | 1 | | 07/21/21 12:03 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 75 | 60-125 | | % | 1 | | 07/21/21 12:03 |

Batch Information

Analytical Batch: XGC10936
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/21/21 12:03
Container ID: 1214357024-A

Prep Batch: XXX45197
Prep Method: SW3550C
Prep Date/Time: 07/20/21 12:02
Prep Initial Wt./Vol.: 22.907 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S8

Client Sample ID: **S8**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357024
Lab Project ID: 1214357

Collection Date: 07/15/21 08:55
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.7
Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| 2-Methylnaphthalene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Acenaphthene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Acenaphthylene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Anthracene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Benzo(a)Anthracene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Benzo[a]pyrene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Benzo[b]Fluoranthene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Benzo[g,h,i]perylene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Benzo[k]fluoranthene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Chrysene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Dibenzo[a,h]anthracene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Fluoranthene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Fluorene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Indeno[1,2,3-c,d] pyrene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Naphthalene | 23.3 U | 23.3 | 5.82 | ug/kg | 1 | | 07/27/21 19:45 |
| Phenanthrene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Pyrene | 29.1 U | 29.1 | 7.27 | ug/kg | 1 | | 07/27/21 19:45 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 86 | 58-103 | | % | 1 | | 07/27/21 19:45 |
| Fluoranthene-d10 (surr) | 84.3 | 54-113 | | % | 1 | | 07/27/21 19:45 |

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 19:45
Container ID: 1214357024-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.554 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S8

Client Sample ID: **S8**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357024
Lab Project ID: 1214357

Collection Date: 07/15/21 08:55
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.7
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 41.6 | 23.0 | 7.12 | mg/kg | 1 | | 07/21/21 19:29 |

Surrogates

| | | | | | | | |
|----------------------|------|--------|--|---|---|--|----------------|
| 5a Androstane (surr) | 93.2 | 50-150 | | % | 1 | | 07/21/21 19:29 |
|----------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 19:29
Container ID: 1214357024-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.463 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 159 | 115 | 49.4 | mg/kg | 1 | | 07/21/21 19:29 |

Surrogates

| | | | | | | | |
|--------------------------|------|--------|--|---|---|--|----------------|
| n-Triacontane-d62 (surr) | 94.7 | 50-150 | | % | 1 | | 07/21/21 19:29 |
|--------------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 19:29
Container ID: 1214357024-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.463 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S8

Client Sample ID: **S8**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357024
Lab Project ID: 1214357

Collection Date: 07/15/21 08:55
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.7
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.65 U | 2.65 | 0.795 | mg/kg | 1 | | 07/29/21 06:08 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 74.6 | 50-150 | | % | 1 | | 07/29/21 06:08 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 06:08
Container ID: 1214357024-C

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/15/21 08:55
Prep Initial Wt./Vol.: 80.228 g
Prep Extract Vol: 36.4485 mL

Print Date: 08/13/2021 2:31:59PM



Results of S8

Client Sample ID: S8
Client Project ID: Danger Bay
Lab Sample ID: 1214357024
Lab Project ID: 1214357

Collection Date: 07/15/21 08:55
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.7
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of S8

Client Sample ID: S8
Client Project ID: Danger Bay
Lab Sample ID: 1214357024
Lab Project ID: 1214357

Collection Date: 07/15/21 08:55
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.7
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of S8

Client Sample ID: **S8**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357024
Lab Project ID: 1214357

Collection Date: 07/15/21 08:55
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.7
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20967
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/25/21 18:42
Container ID: 1214357024-C

Prep Batch: VXX37499
Prep Method: SW5035A
Prep Date/Time: 07/15/21 08:55
Prep Initial Wt./Vol.: 80.228 g
Prep Extract Vol: 36.4485 mL

Print Date: 08/13/2021 2:31:59PM



Results of S8

Client Sample ID: **S8**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357024
Lab Project ID: 1214357

Collection Date: 07/15/21 08:55
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):85.7
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.132 U | 0.132 | 0.0329 | ug/kg | 1 | | 07/26/21 23:15 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 99 | 55-151 | | % | 1 | | 07/26/21 23:15 |
| Toluene-d8 (surr) | 101 | 85-116 | | % | 1 | | 07/26/21 23:15 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/26/21 23:15
Container ID: 1214357024-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/15/21 08:55
Prep Initial Wt./Vol.: 80.228 g
Prep Extract Vol: 36.4485 mL

Print Date: 08/13/2021 2:31:59PM



Results of S9

Client Sample ID: **S9**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357025
Lab Project ID: 1214357

Collection Date: 07/15/21 09:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 11.5 | 1.09 | 0.337 | mg/kg | 10 | | 07/28/21 00:23 |
| Barium | 24.9 | 0.327 | 0.102 | mg/kg | 10 | | 07/28/21 00:23 |
| Cadmium | 0.218 U | 0.218 | 0.0675 | mg/kg | 10 | | 07/28/21 00:23 |
| Chromium | 27.6 | 1.09 | 0.337 | mg/kg | 10 | | 07/28/21 00:23 |
| Lead | 16.5 | 0.218 | 0.0675 | mg/kg | 10 | | 07/28/21 00:23 |
| Mercury | 0.327 U | 0.327 | 0.109 | mg/kg | 10 | | 07/28/21 00:23 |
| Selenium | 2.18 U | 2.18 | 0.675 | mg/kg | 10 | | 07/28/21 00:23 |
| Silver | 0.544 U | 0.544 | 0.163 | mg/kg | 10 | | 07/28/21 00:23 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 00:23
Container ID: 1214357025-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.016 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of S9

Client Sample ID: **S9**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357025
Lab Project ID: 1214357

Collection Date: 07/15/21 09:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 54.7 U | 54.7 | 13.7 | ug/kg | 1 | | 07/21/21 12:23 |
| Aroclor-1221 | 109 U | 109 | 27.3 | ug/kg | 1 | | 07/21/21 12:23 |
| Aroclor-1232 | 54.7 U | 54.7 | 13.7 | ug/kg | 1 | | 07/21/21 12:23 |
| Aroclor-1242 | 54.7 U | 54.7 | 13.7 | ug/kg | 1 | | 07/21/21 12:23 |
| Aroclor-1248 | 54.7 U | 54.7 | 13.7 | ug/kg | 1 | | 07/21/21 12:23 |
| Aroclor-1254 | 54.7 U | 54.7 | 13.7 | ug/kg | 1 | | 07/21/21 12:23 |
| Aroclor-1260 | 54.7 U | 54.7 | 13.7 | ug/kg | 1 | | 07/21/21 12:23 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 70 | 60-125 | | % | 1 | | 07/21/21 12:23 |

Batch Information

Analytical Batch: XGC10936
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/21/21 12:23
Container ID: 1214357025-A

Prep Batch: XXX45197
Prep Method: SW3550C
Prep Date/Time: 07/20/21 12:02
Prep Initial Wt./Vol.: 22.766 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S9

Client Sample ID: S9
Client Project ID: Danger Bay
Lab Sample ID: 1214357025
Lab Project ID: 1214357

Collection Date: 07/15/21 09:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| 2-Methylnaphthalene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Acenaphthene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Acenaphthylene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Anthracene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Benzo(a)Anthracene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Benzo[a]pyrene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Benzo[b]Fluoranthene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Benzo[g,h,i]perylene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Benzo[k]fluoranthene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Chrysene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Dibenzo[a,h]anthracene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Fluoranthene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Fluorene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Indeno[1,2,3-c,d] pyrene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Naphthalene | 22.0 U | 22.0 | 5.50 | ug/kg | 1 | | 07/27/21 20:05 |
| Phenanthrene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Pyrene | 27.5 U | 27.5 | 6.87 | ug/kg | 1 | | 07/27/21 20:05 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 86.9 | 58-103 | | % | 1 | | 07/27/21 20:05 |
| Fluoranthene-d10 (surr) | 82.8 | 54-113 | | % | 1 | | 07/27/21 20:05 |

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 20:05
Container ID: 1214357025-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.622 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S9

Client Sample ID: **S9**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357025
Lab Project ID: 1214357

Collection Date: 07/15/21 09:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 320 | 22.1 | 6.84 | mg/kg | 1 | | 07/21/21 19:39 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 103 | 50-150 | | % | 1 | | 07/21/21 19:39 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 19:39
Container ID: 1214357025-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.053 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 205 | 110 | 47.5 | mg/kg | 1 | | 07/21/21 19:39 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 104 | 50-150 | | % | 1 | | 07/21/21 19:39 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 19:39
Container ID: 1214357025-A

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 07/21/21 07:00
Prep Initial Wt./Vol.: 30.053 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S9

Client Sample ID: **S9**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357025
Lab Project ID: 1214357

Collection Date: 07/15/21 09:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.61 U | 2.61 | 0.783 | mg/kg | 1 | | 07/29/21 06:26 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 78.4 | 50-150 | | % | 1 | | 07/29/21 06:26 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 06:26
Container ID: 1214357025-C

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:20
Prep Initial Wt./Vol.: 66.494 g
Prep Extract Vol: 31.3704 mL

Print Date: 08/13/2021 2:31:59PM



Results of S9

Client Sample ID: S9
Client Project ID: Danger Bay
Lab Sample ID: 1214357025
Lab Project ID: 1214357

Collection Date: 07/15/21 09:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of S9

Client Sample ID: S9
Client Project ID: Danger Bay
Lab Sample ID: 1214357025
Lab Project ID: 1214357

Collection Date: 07/15/21 09:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of S9

Client Sample ID: **S9**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357025
Lab Project ID: 1214357

Collection Date: 07/15/21 09:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20967
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/25/21 18:58
Container ID: 1214357025-C

Prep Batch: VXX37499
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:20
Prep Initial Wt./Vol.: 66.494 g
Prep Extract Vol: 31.3704 mL

Print Date: 08/13/2021 2:31:59PM



Results of S9

Client Sample ID: **S9**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357025
Lab Project ID: 1214357

Collection Date: 07/15/21 09:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.4
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.130 U | 0.130 | 0.0323 | ug/kg | 1 | | 07/26/21 23:30 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 103 | 55-151 | | % | 1 | | 07/26/21 23:30 |
| Toluene-d8 (surr) | 102 | 85-116 | | % | 1 | | 07/26/21 23:30 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/26/21 23:30
Container ID: 1214357025-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:20
Prep Initial Wt./Vol.: 66.494 g
Prep Extract Vol: 31.3704 mL

Print Date: 08/13/2021 2:31:59PM



Results of S10

Client Sample ID: **S10**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357026
Lab Project ID: 1214357

Collection Date: 07/15/21 09:13
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 14.2 | 1.08 | 0.335 | mg/kg | 10 | | 07/28/21 00:27 |
| Barium | 37.1 | 0.325 | 0.102 | mg/kg | 10 | | 07/28/21 00:27 |
| Cadmium | 0.301 | 0.216 | 0.0671 | mg/kg | 10 | | 07/28/21 00:27 |
| Chromium | 37.0 | 1.08 | 0.335 | mg/kg | 10 | | 07/28/21 00:27 |
| Lead | 24.8 | 0.216 | 0.0671 | mg/kg | 10 | | 07/28/21 00:27 |
| Mercury | 0.325 U | 0.325 | 0.108 | mg/kg | 10 | | 07/28/21 00:27 |
| Selenium | 2.16 U | 2.16 | 0.671 | mg/kg | 10 | | 07/28/21 00:27 |
| Silver | 0.541 U | 0.541 | 0.162 | mg/kg | 10 | | 07/28/21 00:27 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 00:27
Container ID: 1214357026-A

Prep Batch: MXX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.015 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of S10

Client Sample ID: **S10**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357026
Lab Project ID: 1214357

Collection Date: 07/15/21 09:13
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 53.8 U | 53.8 | 13.4 | ug/kg | 1 | | 07/21/21 12:34 |
| Aroclor-1221 | 108 U | 108 | 26.9 | ug/kg | 1 | | 07/21/21 12:34 |
| Aroclor-1232 | 53.8 U | 53.8 | 13.4 | ug/kg | 1 | | 07/21/21 12:34 |
| Aroclor-1242 | 53.8 U | 53.8 | 13.4 | ug/kg | 1 | | 07/21/21 12:34 |
| Aroclor-1248 | 53.8 U | 53.8 | 13.4 | ug/kg | 1 | | 07/21/21 12:34 |
| Aroclor-1254 | 53.8 U | 53.8 | 13.4 | ug/kg | 1 | | 07/21/21 12:34 |
| Aroclor-1260 | 53.8 U | 53.8 | 13.4 | ug/kg | 1 | | 07/21/21 12:34 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 72.5 | 60-125 | | % | 1 | | 07/21/21 12:34 |

Batch Information

Analytical Batch: XGC10936
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/21/21 12:34
Container ID: 1214357026-A

Prep Batch: XXX45197
Prep Method: SW3550C
Prep Date/Time: 07/20/21 12:02
Prep Initial Wt./Vol.: 22.963 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S10

Client Sample ID: **S10**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357026
Lab Project ID: 1214357

Collection Date: 07/15/21 09:13
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| 2-Methylnaphthalene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Acenaphthene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Acenaphthylene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Anthracene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Benzo(a)Anthracene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Benzo[a]pyrene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Benzo[b]Fluoranthene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Benzo[g,h,i]perylene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Benzo[k]fluoranthene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Chrysene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Dibenzo[a,h]anthracene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Fluoranthene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Fluorene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Indeno[1,2,3-c,d] pyrene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Naphthalene | 21.5 U | 21.5 | 5.37 | ug/kg | 1 | | 07/27/21 20:26 |
| Phenanthrene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Pyrene | 26.9 U | 26.9 | 6.72 | ug/kg | 1 | | 07/27/21 20:26 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 86.1 | 58-103 | | % | 1 | | 07/27/21 20:26 |
| Fluoranthene-d10 (surr) | 84.4 | 54-113 | | % | 1 | | 07/27/21 20:26 |

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 20:26
Container ID: 1214357026-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.99 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S10

Client Sample ID: **S10**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357026
Lab Project ID: 1214357

Collection Date: 07/15/21 09:13
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 218 | 21.9 | 6.78 | mg/kg | 1 | | 07/21/21 20:19 |

Surrogates

| | | | | | | | |
|----------------------|------|--------|--|---|---|--|----------------|
| 5a Androstane (surr) | 98.9 | 50-150 | | % | 1 | | 07/21/21 20:19 |
|----------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 20:19
Container ID: 1214357026-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.125 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 651 | 109 | 47.0 | mg/kg | 1 | | 07/21/21 20:19 |

Surrogates

| | | | | | | | |
|--------------------------|-----|--------|--|---|---|--|----------------|
| n-Triacontane-d62 (surr) | 110 | 50-150 | | % | 1 | | 07/21/21 20:19 |
|--------------------------|-----|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 20:19
Container ID: 1214357026-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.125 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S10

Client Sample ID: **S10**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357026
Lab Project ID: 1214357

Collection Date: 07/15/21 09:13
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.00 U | 2.00 | 0.599 | mg/kg | 1 | | 07/29/21 06:43 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 81.2 | 50-150 | | % | 1 | | 07/29/21 06:43 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 06:43
Container ID: 1214357026-C

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:13
Prep Initial Wt./Vol.: 91.105 g
Prep Extract Vol: 33.1321 mL

Print Date: 08/13/2021 2:31:59PM



Results of S10

Client Sample ID: S10
Client Project ID: Danger Bay
Lab Sample ID: 1214357026
Lab Project ID: 1214357

Collection Date: 07/15/21 09:13
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of S10

Client Sample ID: S10
Client Project ID: Danger Bay
Lab Sample ID: 1214357026
Lab Project ID: 1214357

Collection Date: 07/15/21 09:13
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical parameters like Chloroethane, Chloroform, etc., with their respective values and analysis dates.

Print Date: 08/13/2021 2:31:59PM



Results of S10

Client Sample ID: **S10**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357026
Lab Project ID: 1214357

Collection Date: 07/15/21 09:13
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20967
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/25/21 19:15
Container ID: 1214357026-C

Prep Batch: VXX37499
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:13
Prep Initial Wt./Vol.: 91.105 g
Prep Extract Vol: 33.1321 mL

Print Date: 08/13/2021 2:31:59PM



Results of S10

Client Sample ID: **S10**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357026
Lab Project ID: 1214357

Collection Date: 07/15/21 09:13
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.0998 U | 0.0998 | 0.0248 | ug/kg | 1 | | 07/26/21 23:45 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 103 | 55-151 | | % | 1 | | 07/26/21 23:45 |
| Toluene-d8 (surr) | 102 | 85-116 | | % | 1 | | 07/26/21 23:45 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/26/21 23:45
Container ID: 1214357026-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:13
Prep Initial Wt./Vol.: 91.105 g
Prep Extract Vol: 33.1321 mL

Print Date: 08/13/2021 2:31:59PM



Results of S11

Client Sample ID: **S11**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357027
Lab Project ID: 1214357

Collection Date: 07/15/21 09:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 8.95 | 1.08 | 0.334 | mg/kg | 10 | | 07/28/21 00:31 |
| Barium | 22.8 | 0.323 | 0.101 | mg/kg | 10 | | 07/28/21 00:31 |
| Cadmium | 0.216 U | 0.216 | 0.0668 | mg/kg | 10 | | 07/28/21 00:31 |
| Chromium | 29.3 | 1.08 | 0.334 | mg/kg | 10 | | 07/28/21 00:31 |
| Lead | 14.3 | 0.216 | 0.0668 | mg/kg | 10 | | 07/28/21 00:31 |
| Mercury | 0.323 U | 0.323 | 0.108 | mg/kg | 10 | | 07/28/21 00:31 |
| Selenium | 2.16 U | 2.16 | 0.668 | mg/kg | 10 | | 07/28/21 00:31 |
| Silver | 0.539 U | 0.539 | 0.162 | mg/kg | 10 | | 07/28/21 00:31 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 00:31
Container ID: 1214357027-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.019 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of S11

Client Sample ID: **S11**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357027
Lab Project ID: 1214357

Collection Date: 07/15/21 09:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 54.4 U | 54.4 | 13.6 | ug/kg | 1 | | 07/21/21 13:04 |
| Aroclor-1221 | 109 U | 109 | 27.2 | ug/kg | 1 | | 07/21/21 13:04 |
| Aroclor-1232 | 54.4 U | 54.4 | 13.6 | ug/kg | 1 | | 07/21/21 13:04 |
| Aroclor-1242 | 54.4 U | 54.4 | 13.6 | ug/kg | 1 | | 07/21/21 13:04 |
| Aroclor-1248 | 54.4 U | 54.4 | 13.6 | ug/kg | 1 | | 07/21/21 13:04 |
| Aroclor-1254 | 54.4 U | 54.4 | 13.6 | ug/kg | 1 | | 07/21/21 13:04 |
| Aroclor-1260 | 54.4 U | 54.4 | 13.6 | ug/kg | 1 | | 07/21/21 13:04 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 85 | 60-125 | | % | 1 | | 07/21/21 13:04 |

Batch Information

Analytical Batch: XGC10936
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/21/21 13:04
Container ID: 1214357027-A

Prep Batch: XXX45197
Prep Method: SW3550C
Prep Date/Time: 07/20/21 12:02
Prep Initial Wt./Vol.: 22.706 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S11

Client Sample ID: **S11**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357027
Lab Project ID: 1214357

Collection Date: 07/15/21 09:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| 2-Methylnaphthalene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Acenaphthene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Acenaphthylene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Anthracene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Benzo(a)Anthracene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Benzo[a]pyrene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Benzo[b]Fluoranthene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Benzo[g,h,i]perylene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Benzo[k]fluoranthene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Chrysene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Dibenzo[a,h]anthracene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Fluoranthene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Fluorene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Indeno[1,2,3-c,d] pyrene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Naphthalene | 21.8 U | 21.8 | 5.46 | ug/kg | 1 | | 07/27/21 20:46 |
| Phenanthrene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Pyrene | 27.3 U | 27.3 | 6.82 | ug/kg | 1 | | 07/27/21 20:46 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 98.9 | 58-103 | | % | 1 | | 07/27/21 20:46 |
| Fluoranthene-d10 (surr) | 94.3 | 54-113 | | % | 1 | | 07/27/21 20:46 |

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 20:46
Container ID: 1214357027-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.641 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S11

Client Sample ID: S11
Client Project ID: Danger Bay
Lab Sample ID: 1214357027
Lab Project ID: 1214357

Collection Date: 07/15/21 09:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 25.0 | 21.9 | 6.79 | mg/kg | 1 | | 07/21/21 20:30 |

Surrogates

| | | | | | | | |
|----------------------|-----|--------|--|---|---|--|----------------|
| 5a Androstane (surr) | 101 | 50-150 | | % | 1 | | 07/21/21 20:30 |
|----------------------|-----|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 20:30
Container ID: 1214357027-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.068 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 110 U | 110 | 47.1 | mg/kg | 1 | | 07/21/21 20:30 |

Surrogates

| | | | | | | | |
|--------------------------|------|--------|--|---|---|--|----------------|
| n-Triacontane-d62 (surr) | 92.6 | 50-150 | | % | 1 | | 07/21/21 20:30 |
|--------------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 20:30
Container ID: 1214357027-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.068 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S11

Client Sample ID: **S11**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357027
Lab Project ID: 1214357

Collection Date: 07/15/21 09:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.42 U | 2.42 | 0.726 | mg/kg | 1 | | 07/29/21 07:01 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 69.6 | 50-150 | | % | 1 | | 07/29/21 07:01 |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/29/21 07:01
Container ID: 1214357027-C

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:45
Prep Initial Wt./Vol.: 71.069 g
Prep Extract Vol: 31.3459 mL

Print Date: 08/13/2021 2:31:59PM



Results of S11

Client Sample ID: S11
Client Project ID: Danger Bay
Lab Sample ID: 1214357027
Lab Project ID: 1214357

Collection Date: 07/15/21 09:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 19.4 U | 19.4 | 6.01 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,1,1-Trichloroethane | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,1,2,2-Tetrachloroethane | 1.94 U | 1.94 | 0.601 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,1,2-Trichloroethane | 0.775 U | 0.775 | 0.242 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,1-Dichloroethane | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,1-Dichloroethene | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,1-Dichloropropene | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,2,3-Trichlorobenzene | 48.4 U | 48.4 | 14.5 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,2,3-Trichloropropane | 1.94 U | 1.94 | 0.601 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,2,4-Trichlorobenzene | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,2,4-Trimethylbenzene | 48.4 U | 48.4 | 14.5 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,2-Dibromo-3-chloropropane | 96.9 U | 96.9 | 30.0 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,2-Dibromoethane | 0.969 U | 0.969 | 0.387 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,2-Dichlorobenzene | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,2-Dichloroethane | 1.94 U | 1.94 | 0.678 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,2-Dichloropropane | 9.69 U | 9.69 | 3.00 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,3,5-Trimethylbenzene | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,3-Dichlorobenzene | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,3-Dichloropropane | 9.69 U | 9.69 | 3.00 | ug/kg | 1 | | 07/25/21 17:19 |
| 1,4-Dichlorobenzene | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| 2,2-Dichloropropane | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| 2-Butanone (MEK) | 242 U | 242 | 75.6 | ug/kg | 1 | | 07/25/21 17:19 |
| 2-Chlorotoluene | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| 2-Hexanone | 96.9 U | 96.9 | 30.0 | ug/kg | 1 | | 07/25/21 17:19 |
| 4-Chlorotoluene | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| 4-Isopropyltoluene | 96.9 U | 96.9 | 24.2 | ug/kg | 1 | | 07/25/21 17:19 |
| 4-Methyl-2-pentanone (MIBK) | 242 U | 242 | 75.6 | ug/kg | 1 | | 07/25/21 17:19 |
| Acetone | 242 U | 242 | 75.6 | ug/kg | 1 | | 07/25/21 17:19 |
| Benzene | 12.1 U | 12.1 | 3.78 | ug/kg | 1 | | 07/25/21 17:19 |
| Bromobenzene | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| Bromochloromethane | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| Bromodichloromethane | 1.94 U | 1.94 | 0.601 | ug/kg | 1 | | 07/25/21 17:19 |
| Bromoform | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |
| Bromomethane | 19.4 U | 19.4 | 6.01 | ug/kg | 1 | | 07/25/21 17:19 |
| Carbon disulfide | 96.9 U | 96.9 | 30.0 | ug/kg | 1 | | 07/25/21 17:19 |
| Carbon tetrachloride | 12.1 U | 12.1 | 3.78 | ug/kg | 1 | | 07/25/21 17:19 |
| Chlorobenzene | 24.2 U | 24.2 | 7.56 | ug/kg | 1 | | 07/25/21 17:19 |

Print Date: 08/13/2021 2:31:59PM



Results of S11

Client Sample ID: S11
Client Project ID: Danger Bay
Lab Sample ID: 1214357027
Lab Project ID: 1214357

Collection Date: 07/15/21 09:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of S11

Client Sample ID: **S11**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357027
Lab Project ID: 1214357

Collection Date: 07/15/21 09:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20967
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/25/21 17:19
Container ID: 1214357027-C

Prep Batch: VXX37499
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:45
Prep Initial Wt./Vol.: 71.069 g
Prep Extract Vol: 31.3459 mL

Print Date: 08/13/2021 2:31:59PM



Results of S11

Client Sample ID: **S11**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357027
Lab Project ID: 1214357

Collection Date: 07/15/21 09:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):91.1
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.121 U | 0.121 | 0.0300 | ug/kg | 1 | | 07/27/21 00:00 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 91.5 | 55-151 | | % | 1 | | 07/27/21 00:00 |
| Toluene-d8 (surr) | 101 | 85-116 | | % | 1 | | 07/27/21 00:00 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/27/21 00:00
Container ID: 1214357027-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:45
Prep Initial Wt./Vol.: 71.069 g
Prep Extract Vol: 31.3459 mL

Print Date: 08/13/2021 2:31:59PM



Results of S26

Client Sample ID: **S26**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357028
Lab Project ID: 1214357

Collection Date: 07/15/21 09:30
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):79.5
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 11.2 | 1.20 | 0.372 | mg/kg | 10 | | 07/28/21 00:44 |
| Barium | 24.1 | 0.360 | 0.113 | mg/kg | 10 | | 07/28/21 00:44 |
| Cadmium | 0.240 U | 0.240 | 0.0744 | mg/kg | 10 | | 07/28/21 00:44 |
| Chromium | 25.6 | 1.20 | 0.372 | mg/kg | 10 | | 07/28/21 00:44 |
| Lead | 15.1 | 0.240 | 0.0744 | mg/kg | 10 | | 07/28/21 00:44 |
| Mercury | 0.360 U | 0.360 | 0.120 | mg/kg | 10 | | 07/28/21 00:44 |
| Selenium | 2.40 U | 2.40 | 0.744 | mg/kg | 10 | | 07/28/21 00:44 |
| Silver | 0.600 U | 0.600 | 0.180 | mg/kg | 10 | | 07/28/21 00:44 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 00:44
Container ID: 1214357028-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.048 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of S26

Client Sample ID: **S26**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357028
Lab Project ID: 1214357

Collection Date: 07/15/21 09:30
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):79.5
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 62.2 U | 62.2 | 15.5 | ug/kg | 1 | | 07/21/21 13:14 |
| Aroclor-1221 | 124 U | 124 | 31.1 | ug/kg | 1 | | 07/21/21 13:14 |
| Aroclor-1232 | 62.2 U | 62.2 | 15.5 | ug/kg | 1 | | 07/21/21 13:14 |
| Aroclor-1242 | 62.2 U | 62.2 | 15.5 | ug/kg | 1 | | 07/21/21 13:14 |
| Aroclor-1248 | 62.2 U | 62.2 | 15.5 | ug/kg | 1 | | 07/21/21 13:14 |
| Aroclor-1254 | 62.2 U | 62.2 | 15.5 | ug/kg | 1 | | 07/21/21 13:14 |
| Aroclor-1260 | 62.2 U | 62.2 | 15.5 | ug/kg | 1 | | 07/21/21 13:14 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 67.5 | 60-125 | | % | 1 | | 07/21/21 13:14 |

Batch Information

Analytical Batch: XGC10936
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/21/21 13:14
Container ID: 1214357028-A

Prep Batch: XXX45197
Prep Method: SW3550C
Prep Date/Time: 07/20/21 12:02
Prep Initial Wt./Vol.: 22.765 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S26

Client Sample ID: **S26**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357028
 Lab Project ID: 1214357

Collection Date: 07/15/21 09:30
 Received Date: 07/16/21 15:44
 Matrix: Soil/Solid (dry weight)
 Solids (%):79.5
 Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| 2-Methylnaphthalene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Acenaphthene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Acenaphthylene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Anthracene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Benzo(a)Anthracene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Benzo[a]pyrene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Benzo[b]Fluoranthene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Benzo[g,h,i]perylene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Benzo[k]fluoranthene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Chrysene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Dibenzo[a,h]anthracene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Fluoranthene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Fluorene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Indeno[1,2,3-c,d] pyrene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Naphthalene | 25.1 U | 25.1 | 6.26 | ug/kg | 1 | | 07/27/21 21:07 |
| Phenanthrene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Pyrene | 31.3 U | 31.3 | 7.83 | ug/kg | 1 | | 07/27/21 21:07 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 88.5 | 58-103 | | % | 1 | | 07/27/21 21:07 |
| Fluoranthene-d10 (surr) | 86.5 | 54-113 | | % | 1 | | 07/27/21 21:07 |

Batch Information

Analytical Batch: XMS12782
 Analytical Method: 8270D SIM (PAH)
 Analyst: LAW
 Analytical Date/Time: 07/27/21 21:07
 Container ID: 1214357028-A

Prep Batch: XXX45216
 Prep Method: SW3550C
 Prep Date/Time: 07/23/21 12:00
 Prep Initial Wt./Vol.: 22.596 g
 Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of **S26**

Client Sample ID: **S26**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357028
Lab Project ID: 1214357

Collection Date: 07/15/21 09:30
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):79.5
Location:

Results by **Semivolatile Organic Fuels**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 55.4 | 24.9 | 7.72 | mg/kg | 1 | | 07/21/21 20:40 |

Surrogates

| | | | | | | | |
|----------------------|------|--------|--|---|---|--|----------------|
| 5a Androstane (surr) | 91.3 | 50-150 | | % | 1 | | 07/21/21 20:40 |
|----------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 20:40
Container ID: 1214357028-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.315 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 214 | 125 | 53.5 | mg/kg | 1 | | 07/21/21 20:40 |

Surrogates

| | | | | | | | |
|--------------------------|------|--------|--|---|---|--|----------------|
| n-Triacontane-d62 (surr) | 88.7 | 50-150 | | % | 1 | | 07/21/21 20:40 |
|--------------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 20:40
Container ID: 1214357028-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.315 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of S26

Client Sample ID: **S26**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357028
Lab Project ID: 1214357

Collection Date: 07/15/21 09:30
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):79.5
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 3.10 U | 3.10 | 0.929 | mg/kg | 1 | | 07/28/21 19:00 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 80.1 | 50-150 | | % | 1 | | 07/28/21 19:00 |

Batch Information

Analytical Batch: VFC15738
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 19:00
Container ID: 1214357028-C

Prep Batch: VXX37524
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:30
Prep Initial Wt./Vol.: 87.051 g
Prep Extract Vol: 42.8678 mL

Print Date: 08/13/2021 2:31:59PM



Results of S26

Client Sample ID: **S26**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357028
 Lab Project ID: 1214357

Collection Date: 07/15/21 09:30
 Received Date: 07/16/21 15:44
 Matrix: Soil/Solid (dry weight)
 Solids (%):79.5
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 24.8 U | 24.8 | 7.68 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,1,1-Trichloroethane | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,1,2,2-Tetrachloroethane | 2.48 U | 2.48 | 0.768 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,1,2-Trichloroethane | 0.991 U | 0.991 | 0.310 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,1-Dichloroethane | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,1-Dichloroethene | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,1-Dichloropropene | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,2,3-Trichlorobenzene | 62.0 U | 62.0 | 18.6 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,2,3-Trichloropropane | 2.48 U | 2.48 | 0.768 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,2,4-Trichlorobenzene | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,2,4-Trimethylbenzene | 62.0 U | 62.0 | 18.6 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,2-Dibromo-3-chloropropane | 124 U | 124 | 38.4 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,2-Dibromoethane | 1.24 U | 1.24 | 0.496 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,2-Dichlorobenzene | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,2-Dichloroethane | 2.48 U | 2.48 | 0.867 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,2-Dichloropropane | 12.4 U | 12.4 | 3.84 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,3,5-Trimethylbenzene | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,3-Dichlorobenzene | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,3-Dichloropropane | 12.4 U | 12.4 | 3.84 | ug/kg | 1 | | 07/25/21 19:31 |
| 1,4-Dichlorobenzene | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| 2,2-Dichloropropane | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| 2-Butanone (MEK) | 310 U | 310 | 96.7 | ug/kg | 1 | | 07/25/21 19:31 |
| 2-Chlorotoluene | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| 2-Hexanone | 124 U | 124 | 38.4 | ug/kg | 1 | | 07/25/21 19:31 |
| 4-Chlorotoluene | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| 4-Isopropyltoluene | 124 U | 124 | 31.0 | ug/kg | 1 | | 07/25/21 19:31 |
| 4-Methyl-2-pentanone (MIBK) | 310 U | 310 | 96.7 | ug/kg | 1 | | 07/25/21 19:31 |
| Acetone | 310 U | 310 | 96.7 | ug/kg | 1 | | 07/25/21 19:31 |
| Benzene | 15.5 U | 15.5 | 4.83 | ug/kg | 1 | | 07/25/21 19:31 |
| Bromobenzene | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| Bromochloromethane | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| Bromodichloromethane | 2.48 U | 2.48 | 0.768 | ug/kg | 1 | | 07/25/21 19:31 |
| Bromoform | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |
| Bromomethane | 24.8 U | 24.8 | 7.68 | ug/kg | 1 | | 07/25/21 19:31 |
| Carbon disulfide | 124 U | 124 | 38.4 | ug/kg | 1 | | 07/25/21 19:31 |
| Carbon tetrachloride | 15.5 U | 15.5 | 4.83 | ug/kg | 1 | | 07/25/21 19:31 |
| Chlorobenzene | 31.0 U | 31.0 | 9.67 | ug/kg | 1 | | 07/25/21 19:31 |

Print Date: 08/13/2021 2:31:59PM



Results of S26

Client Sample ID: S26
Client Project ID: Danger Bay
Lab Sample ID: 1214357028
Lab Project ID: 1214357

Collection Date: 07/15/21 09:30
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):79.5
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical parameters like Chloroethane, Chloroform, etc., with their respective values and analysis dates.

Print Date: 08/13/2021 2:31:59PM



Results of S26

Client Sample ID: **S26**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357028
Lab Project ID: 1214357

Collection Date: 07/15/21 09:30
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):79.5
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20967
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/25/21 19:31
Container ID: 1214357028-C

Prep Batch: VXX37499
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:30
Prep Initial Wt./Vol.: 87.051 g
Prep Extract Vol: 42.8678 mL

Print Date: 08/13/2021 2:31:59PM



Results of S26

Client Sample ID: **S26**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357028
Lab Project ID: 1214357

Collection Date: 07/15/21 09:30
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):79.5
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.155 U | 0.155 | 0.0384 | ug/kg | 1 | | 07/27/21 00:15 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 84.6 | 55-151 | | % | 1 | | 07/27/21 00:15 |
| Toluene-d8 (surr) | 101 | 85-116 | | % | 1 | | 07/27/21 00:15 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/27/21 00:15
Container ID: 1214357028-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:30
Prep Initial Wt./Vol.: 87.051 g
Prep Extract Vol: 42.8678 mL

Print Date: 08/13/2021 2:31:59PM



Results of N3

Client Sample ID: **N3**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357029
Lab Project ID: 1214357

Collection Date: 07/15/21 10:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.1
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 6.46 | 1.11 | 0.343 | mg/kg | 10 | | 07/28/21 00:48 |
| Barium | 17.9 | 0.332 | 0.104 | mg/kg | 10 | | 07/28/21 00:48 |
| Cadmium | 0.348 | 0.221 | 0.0687 | mg/kg | 10 | | 07/28/21 00:48 |
| Chromium | 20.8 | 1.11 | 0.343 | mg/kg | 10 | | 07/28/21 00:48 |
| Lead | 14.4 | 0.221 | 0.0687 | mg/kg | 10 | | 07/28/21 00:48 |
| Mercury | 0.539 | 0.332 | 0.111 | mg/kg | 10 | | 07/28/21 00:48 |
| Selenium | 2.21 U | 2.21 | 0.687 | mg/kg | 10 | | 07/28/21 00:48 |
| Silver | 0.554 U | 0.554 | 0.166 | mg/kg | 10 | | 07/28/21 00:48 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 00:48
Container ID: 1214357029-A

Prep Batch: MXX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.002 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of N3

Client Sample ID: **N3**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357029
Lab Project ID: 1214357

Collection Date: 07/15/21 10:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.1
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 54.7 U | 54.7 | 13.7 | ug/kg | 1 | | 07/21/21 13:25 |
| Aroclor-1221 | 109 U | 109 | 27.4 | ug/kg | 1 | | 07/21/21 13:25 |
| Aroclor-1232 | 54.7 U | 54.7 | 13.7 | ug/kg | 1 | | 07/21/21 13:25 |
| Aroclor-1242 | 54.7 U | 54.7 | 13.7 | ug/kg | 1 | | 07/21/21 13:25 |
| Aroclor-1248 | 54.7 U | 54.7 | 13.7 | ug/kg | 1 | | 07/21/21 13:25 |
| Aroclor-1254 | 54.7 U | 54.7 | 13.7 | ug/kg | 1 | | 07/21/21 13:25 |
| Aroclor-1260 | 54.7 U | 54.7 | 13.7 | ug/kg | 1 | | 07/21/21 13:25 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 75 | 60-125 | | % | 1 | | 07/21/21 13:25 |

Batch Information

Analytical Batch: XGC10936
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/21/21 13:25
Container ID: 1214357029-A

Prep Batch: XXX45197
Prep Method: SW3550C
Prep Date/Time: 07/20/21 12:02
Prep Initial Wt./Vol.: 22.817 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N3

Client Sample ID: **N3**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357029
 Lab Project ID: 1214357

Collection Date: 07/15/21 10:15
 Received Date: 07/16/21 15:44
 Matrix: Soil/Solid (dry weight)
 Solids (%):90.1
 Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| 2-Methylnaphthalene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Acenaphthene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Acenaphthylene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Anthracene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Benzo(a)Anthracene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Benzo[a]pyrene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Benzo[b]Fluoranthene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Benzo[g,h,i]perylene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Benzo[k]fluoranthene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Chrysene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Dibenzo[a,h]anthracene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Fluoranthene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Fluorene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Indeno[1,2,3-c,d] pyrene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Naphthalene | 111 U | 111 | 27.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Phenanthrene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Pyrene | 138 U | 138 | 34.6 | ug/kg | 5 | | 07/27/21 21:27 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 95.6 | 58-103 | | % | 5 | | 07/27/21 21:27 |
| Fluoranthene-d10 (surr) | 96.8 | 54-113 | | % | 5 | | 07/27/21 21:27 |

Batch Information

Analytical Batch: XMS12782
 Analytical Method: 8270D SIM (PAH)
 Analyst: LAW
 Analytical Date/Time: 07/27/21 21:27
 Container ID: 1214357029-A

Prep Batch: XXX45216
 Prep Method: SW3550C
 Prep Date/Time: 07/23/21 12:00
 Prep Initial Wt./Vol.: 22.581 g
 Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N3

Client Sample ID: **N3**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357029
Lab Project ID: 1214357

Collection Date: 07/15/21 10:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.1
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 562 | 22.2 | 6.87 | mg/kg | 1 | | 07/21/21 23:01 |

Surrogates

| | | | | | | | |
|----------------------|-----|--------|--|---|---|--|----------------|
| 5a Androstane (surr) | 101 | 50-150 | | % | 1 | | 07/21/21 23:01 |
|----------------------|-----|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 23:01
Container ID: 1214357029-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.04 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 1420 | 111 | 47.7 | mg/kg | 1 | | 07/21/21 23:01 |

Surrogates

| | | | | | | | |
|--------------------------|------|--------|--|---|---|--|----------------|
| n-Triacontane-d62 (surr) | 90.3 | 50-150 | | % | 1 | | 07/21/21 23:01 |
|--------------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 23:01
Container ID: 1214357029-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.04 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N3

Client Sample ID: **N3**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357029
Lab Project ID: 1214357

Collection Date: 07/15/21 10:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.1
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.26 U | 2.26 | 0.678 | mg/kg | 1 | | 07/28/21 19:18 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 90.2 | 50-150 | | % | 1 | | 07/28/21 19:18 |

Batch Information

Analytical Batch: VFC15738
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 19:18
Container ID: 1214357029-C

Prep Batch: VXX37524
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:15
Prep Initial Wt./Vol.: 80.954 g
Prep Extract Vol: 32.9992 mL

Print Date: 08/13/2021 2:31:59PM



Results of N3

Client Sample ID: N3
Client Project ID: Danger Bay
Lab Sample ID: 1214357029
Lab Project ID: 1214357

Collection Date: 07/15/21 10:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.1
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

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Results of N3

Client Sample ID: N3
Client Project ID: Danger Bay
Lab Sample ID: 1214357029
Lab Project ID: 1214357

Collection Date: 07/15/21 10:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.1
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical parameters such as Chloroethane, Chloroform, and Hexachlorobutadiene with their respective results and limits.

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Results of N3

Client Sample ID: **N3**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357029
Lab Project ID: 1214357

Collection Date: 07/15/21 10:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.1
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20967
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/25/21 19:48
Container ID: 1214357029-C

Prep Batch: VXX37499
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:15
Prep Initial Wt./Vol.: 80.954 g
Prep Extract Vol: 32.9992 mL

Print Date: 08/13/2021 2:31:59PM



Results of N3

Client Sample ID: **N3**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357029
Lab Project ID: 1214357

Collection Date: 07/15/21 10:15
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.1
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.113 U | 0.113 | 0.0280 | ug/kg | 1 | | 07/27/21 00:30 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 100 | 55-151 | | % | 1 | | 07/27/21 00:30 |
| Toluene-d8 (surr) | 101 | 85-116 | | % | 1 | | 07/27/21 00:30 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/27/21 00:30
Container ID: 1214357029-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:15
Prep Initial Wt./Vol.: 80.954 g
Prep Extract Vol: 32.9992 mL

Print Date: 08/13/2021 2:31:59PM



Results of N7

Client Sample ID: **N7**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357030
Lab Project ID: 1214357

Collection Date: 07/15/21 10:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.3
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 9.13 | 1.08 | 0.333 | mg/kg | 10 | | 07/28/21 00:52 |
| Barium | 23.2 | 0.323 | 0.101 | mg/kg | 10 | | 07/28/21 00:52 |
| Cadmium | 0.502 | 0.215 | 0.0667 | mg/kg | 10 | | 07/28/21 00:52 |
| Chromium | 26.4 | 1.08 | 0.333 | mg/kg | 10 | | 07/28/21 00:52 |
| Lead | 17.8 | 0.215 | 0.0667 | mg/kg | 10 | | 07/28/21 00:52 |
| Mercury | 0.357 | 0.323 | 0.108 | mg/kg | 10 | | 07/28/21 00:52 |
| Selenium | 2.15 U | 2.15 | 0.667 | mg/kg | 10 | | 07/28/21 00:52 |
| Silver | 0.538 U | 0.538 | 0.161 | mg/kg | 10 | | 07/28/21 00:52 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 00:52
Container ID: 1214357030-A

Prep Batch: MXX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.053 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of N7

Client Sample ID: **N7**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357030
Lab Project ID: 1214357

Collection Date: 07/15/21 10:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.3
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 55.9 U | 55.9 | 14.0 | ug/kg | 1 | | 07/22/21 07:58 |
| Aroclor-1221 | 112 U | 112 | 27.9 | ug/kg | 1 | | 07/22/21 07:58 |
| Aroclor-1232 | 55.9 U | 55.9 | 14.0 | ug/kg | 1 | | 07/22/21 07:58 |
| Aroclor-1242 | 55.9 U | 55.9 | 14.0 | ug/kg | 1 | | 07/22/21 07:58 |
| Aroclor-1248 | 55.9 U | 55.9 | 14.0 | ug/kg | 1 | | 07/22/21 07:58 |
| Aroclor-1254 | 55.9 U | 55.9 | 14.0 | ug/kg | 1 | | 07/22/21 07:58 |
| Aroclor-1260 | 55.9 U | 55.9 | 14.0 | ug/kg | 1 | | 07/22/21 07:58 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 70 | 60-125 | | % | 1 | | 07/22/21 07:58 |

Batch Information

Analytical Batch: XGC10938
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/22/21 07:58
Container ID: 1214357030-A

Prep Batch: XXX45202
Prep Method: SW3550C
Prep Date/Time: 07/21/21 08:16
Prep Initial Wt./Vol.: 22.792 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N7

Client Sample ID: **N7**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357030
Lab Project ID: 1214357

Collection Date: 07/15/21 10:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.3
Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| 2-Methylnaphthalene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Acenaphthene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Acenaphthylene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Anthracene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Benzo(a)Anthracene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Benzo[a]pyrene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Benzo[b]Fluoranthene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Benzo[g,h,i]perylene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Benzo[k]fluoranthene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Chrysene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Dibenzo[a,h]anthracene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Fluoranthene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Fluorene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Indeno[1,2,3-c,d] pyrene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Naphthalene | 113 U | 113 | 28.1 | ug/kg | 5 | | 07/27/21 21:48 |
| Phenanthrene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Pyrene | 141 U | 141 | 35.2 | ug/kg | 5 | | 07/27/21 21:48 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 93.1 | 58-103 | | % | 5 | | 07/27/21 21:48 |
| Fluoranthene-d10 (surr) | 95.8 | 54-113 | | % | 5 | | 07/27/21 21:48 |

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 21:48
Container ID: 1214357030-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.634 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N7

Client Sample ID: N7
Client Project ID: Danger Bay
Lab Sample ID: 1214357030
Lab Project ID: 1214357

Collection Date: 07/15/21 10:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.3
Location:

Results by Semivolatile Organic Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Diesel Range Organics, 590, 22.5, 6.99, mg/kg, 1, 07/21/21 20:50

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 5a Androstane (surr), 109, 50-150, %, 1, 07/21/21 20:50

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 20:50
Container ID: 1214357030-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.14 g
Prep Extract Vol: 5 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Residual Range Organics, 113 U, 113, 48.5, mg/kg, 1, 07/21/21 20:50

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: n-Triacontane-d62 (surr), 105, 50-150, %, 1, 07/21/21 20:50

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 20:50
Container ID: 1214357030-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.14 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N7

Client Sample ID: **N7**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357030
Lab Project ID: 1214357

Collection Date: 07/15/21 10:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.3
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.50 U | 2.50 | 0.749 | mg/kg | 1 | | 07/28/21 19:35 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 99.6 | 50-150 | | % | 1 | | 07/28/21 19:35 |

Batch Information

Analytical Batch: VFC15738
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 19:35
Container ID: 1214357030-C

Prep Batch: VXX37524
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:45
Prep Initial Wt./Vol.: 77.076 g
Prep Extract Vol: 34.0021 mL

Print Date: 08/13/2021 2:31:59PM



Results of N7

Client Sample ID: N7
Client Project ID: Danger Bay
Lab Sample ID: 1214357030
Lab Project ID: 1214357

Collection Date: 07/15/21 10:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.3
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 20.0 U | 20.0 | 6.19 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,1,1-Trichloroethane | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,1,2,2-Tetrachloroethane | 2.00 U | 2.00 | 0.619 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,1,2-Trichloroethane | 0.799 U | 0.799 | 0.250 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,1-Dichloroethane | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,1-Dichloroethene | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,1-Dichloropropene | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,2,3-Trichlorobenzene | 49.9 U | 49.9 | 15.0 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,2,3-Trichloropropane | 2.00 U | 2.00 | 0.619 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,2,4-Trichlorobenzene | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,2,4-Trimethylbenzene | 49.9 U | 49.9 | 15.0 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,2-Dibromo-3-chloropropane | 99.9 U | 99.9 | 31.0 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,2-Dibromoethane | 0.999 U | 0.999 | 0.400 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,2-Dichlorobenzene | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,2-Dichloroethane | 2.00 U | 2.00 | 0.699 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,2-Dichloropropane | 9.99 U | 9.99 | 3.10 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,3,5-Trimethylbenzene | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,3-Dichlorobenzene | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,3-Dichloropropane | 9.99 U | 9.99 | 3.10 | ug/kg | 1 | | 07/25/21 20:04 |
| 1,4-Dichlorobenzene | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| 2,2-Dichloropropane | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| 2-Butanone (MEK) | 250 U | 250 | 77.9 | ug/kg | 1 | | 07/25/21 20:04 |
| 2-Chlorotoluene | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| 2-Hexanone | 99.9 U | 99.9 | 31.0 | ug/kg | 1 | | 07/25/21 20:04 |
| 4-Chlorotoluene | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| 4-Isopropyltoluene | 99.9 U | 99.9 | 25.0 | ug/kg | 1 | | 07/25/21 20:04 |
| 4-Methyl-2-pentanone (MIBK) | 250 U | 250 | 77.9 | ug/kg | 1 | | 07/25/21 20:04 |
| Acetone | 250 U | 250 | 77.9 | ug/kg | 1 | | 07/25/21 20:04 |
| Benzene | 12.5 U | 12.5 | 3.90 | ug/kg | 1 | | 07/25/21 20:04 |
| Bromobenzene | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| Bromochloromethane | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| Bromodichloromethane | 2.00 U | 2.00 | 0.619 | ug/kg | 1 | | 07/25/21 20:04 |
| Bromoform | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |
| Bromomethane | 20.0 U | 20.0 | 6.19 | ug/kg | 1 | | 07/25/21 20:04 |
| Carbon disulfide | 99.9 U | 99.9 | 31.0 | ug/kg | 1 | | 07/25/21 20:04 |
| Carbon tetrachloride | 12.5 U | 12.5 | 3.90 | ug/kg | 1 | | 07/25/21 20:04 |
| Chlorobenzene | 25.0 U | 25.0 | 7.79 | ug/kg | 1 | | 07/25/21 20:04 |

Print Date: 08/13/2021 2:31:59PM



Results of N7

Client Sample ID: N7
Client Project ID: Danger Bay
Lab Sample ID: 1214357030
Lab Project ID: 1214357

Collection Date: 07/15/21 10:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.3
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of N7

Client Sample ID: **N7**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357030
Lab Project ID: 1214357

Collection Date: 07/15/21 10:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.3
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20967
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/25/21 20:04
Container ID: 1214357030-C

Prep Batch: VXX37499
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:45
Prep Initial Wt./Vol.: 77.076 g
Prep Extract Vol: 34.0021 mL

Print Date: 08/13/2021 2:31:59PM



Results of N7

Client Sample ID: **N7**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357030
Lab Project ID: 1214357

Collection Date: 07/15/21 10:45
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):88.3
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.125 U | 0.125 | 0.0310 | ug/kg | 1 | | 07/27/21 00:46 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 100 | 55-151 | | % | 1 | | 07/27/21 00:46 |
| Toluene-d8 (surr) | 101 | 85-116 | | % | 1 | | 07/27/21 00:46 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/27/21 00:46
Container ID: 1214357030-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:45
Prep Initial Wt./Vol.: 77.076 g
Prep Extract Vol: 34.0021 mL

Print Date: 08/13/2021 2:31:59PM



Results of N18

Client Sample ID: **N18**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357031
Lab Project ID: 1214357

Collection Date: 07/15/21 10:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 6.81 | 1.05 | 0.326 | mg/kg | 10 | | 07/28/21 00:56 |
| Barium | 19.4 | 0.316 | 0.0989 | mg/kg | 10 | | 07/28/21 00:56 |
| Cadmium | 0.392 | 0.210 | 0.0652 | mg/kg | 10 | | 07/28/21 00:56 |
| Chromium | 25.7 | 1.05 | 0.326 | mg/kg | 10 | | 07/28/21 00:56 |
| Lead | 16.8 | 0.210 | 0.0652 | mg/kg | 10 | | 07/28/21 00:56 |
| Mercury | 0.316 U | 0.316 | 0.105 | mg/kg | 10 | | 07/28/21 00:56 |
| Selenium | 2.10 U | 2.10 | 0.652 | mg/kg | 10 | | 07/28/21 00:56 |
| Silver | 0.526 U | 0.526 | 0.158 | mg/kg | 10 | | 07/28/21 00:56 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 00:56
Container ID: 1214357031-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.033 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of N18

Client Sample ID: **N18**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357031
Lab Project ID: 1214357

Collection Date: 07/15/21 10:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 53.4 U | 53.4 | 13.3 | ug/kg | 1 | | 07/22/21 07:47 |
| Aroclor-1221 | 107 U | 107 | 26.7 | ug/kg | 1 | | 07/22/21 07:47 |
| Aroclor-1232 | 53.4 U | 53.4 | 13.3 | ug/kg | 1 | | 07/22/21 07:47 |
| Aroclor-1242 | 53.4 U | 53.4 | 13.3 | ug/kg | 1 | | 07/22/21 07:47 |
| Aroclor-1248 | 53.4 U | 53.4 | 13.3 | ug/kg | 1 | | 07/22/21 07:47 |
| Aroclor-1254 | 53.4 U | 53.4 | 13.3 | ug/kg | 1 | | 07/22/21 07:47 |
| Aroclor-1260 | 53.4 U | 53.4 | 13.3 | ug/kg | 1 | | 07/22/21 07:47 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 67.5 | 60-125 | | % | 1 | | 07/22/21 07:47 |

Batch Information

Analytical Batch: XGC10938
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/22/21 07:47
Container ID: 1214357031-A

Prep Batch: XXX45202
Prep Method: SW3550C
Prep Date/Time: 07/21/21 08:16
Prep Initial Wt./Vol.: 22.908 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N18

Client Sample ID: **N18**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357031
Lab Project ID: 1214357

Collection Date: 07/15/21 10:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| 2-Methylnaphthalene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Acenaphthene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Acenaphthylene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Anthracene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Benzo(a)Anthracene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Benzo[a]pyrene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Benzo[b]Fluoranthene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Benzo[g,h,i]perylene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Benzo[k]fluoranthene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Chrysene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Dibenzo[a,h]anthracene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Fluoranthene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Fluorene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Indeno[1,2,3-c,d] pyrene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Naphthalene | 108 U | 108 | 27.1 | ug/kg | 5 | | 07/27/21 22:09 |
| Phenanthrene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Pyrene | 136 U | 136 | 33.9 | ug/kg | 5 | | 07/27/21 22:09 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 94.6 | 58-103 | | % | 5 | | 07/27/21 22:09 |
| Fluoranthene-d10 (surr) | 88.7 | 54-113 | | % | 5 | | 07/27/21 22:09 |

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 22:09
Container ID: 1214357031-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.538 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N18

Client Sample ID: **N18**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357031
Lab Project ID: 1214357

Collection Date: 07/15/21 10:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 1830 | 21.5 | 6.66 | mg/kg | 1 | | 07/21/21 23:11 |

Surrogates

| | | | | | | | |
|----------------------|------|--------|--|---|---|--|----------------|
| 5a Androstane (surr) | 97.6 | 50-150 | | % | 1 | | 07/21/21 23:11 |
|----------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 23:11
Container ID: 1214357031-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.355 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 2130 | 107 | 46.2 | mg/kg | 1 | | 07/21/21 23:11 |

Surrogates

| | | | | | | | |
|--------------------------|------|--------|--|---|---|--|----------------|
| n-Triacontane-d62 (surr) | 88.2 | 50-150 | | % | 1 | | 07/21/21 23:11 |
|--------------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 23:11
Container ID: 1214357031-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.355 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N18

Client Sample ID: **N18**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357031
Lab Project ID: 1214357

Collection Date: 07/15/21 10:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.08 U | 2.08 | 0.624 | mg/kg | 1 | | 07/28/21 19:54 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 94.7 | 50-150 | | % | 1 | | 07/28/21 19:54 |

Batch Information

Analytical Batch: VFC15738
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 19:54
Container ID: 1214357031-C

Prep Batch: VXX37524
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:20
Prep Initial Wt./Vol.: 82.441 g
Prep Extract Vol: 31.5633 mL

Print Date: 08/13/2021 2:31:59PM



Results of N18

Client Sample ID: N18
Client Project ID: Danger Bay
Lab Sample ID: 1214357031
Lab Project ID: 1214357

Collection Date: 07/15/21 10:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of N18

Client Sample ID: N18
Client Project ID: Danger Bay
Lab Sample ID: 1214357031
Lab Project ID: 1214357

Collection Date: 07/15/21 10:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical parameters such as Chloroethane, Chloroform, and Hexachlorobutadiene with their respective results and limits.

Print Date: 08/13/2021 2:31:59PM



Results of N18

Client Sample ID: **N18**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357031
Lab Project ID: 1214357

Collection Date: 07/15/21 10:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20975
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/27/21 15:07
Container ID: 1214357031-C

Prep Batch: VXX37511
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:20
Prep Initial Wt./Vol.: 82.441 g
Prep Extract Vol: 31.5633 mL

Print Date: 08/13/2021 2:31:59PM



Results of N18

Client Sample ID: **N18**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357031
Lab Project ID: 1214357

Collection Date: 07/15/21 10:20
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.104 U | 0.104 | 0.0258 | ug/kg | 1 | | 07/27/21 01:01 |

Surrogates

| | | | | | | | |
|-----------------------------|------|--------|--|---|---|--|----------------|
| 4-Bromofluorobenzene (surr) | 99.2 | 55-151 | | % | 1 | | 07/27/21 01:01 |
| Toluene-d8 (surr) | 99.7 | 85-116 | | % | 1 | | 07/27/21 01:01 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/27/21 01:01
Container ID: 1214357031-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:20
Prep Initial Wt./Vol.: 82.441 g
Prep Extract Vol: 31.5633 mL

Print Date: 08/13/2021 2:31:59PM



Results of N19

Client Sample ID: **N19**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357032
Lab Project ID: 1214357

Collection Date: 07/15/21 09:53
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.6
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 10.1 | 1.08 | 0.336 | mg/kg | 10 | | 07/28/21 01:01 |
| Barium | 30.6 | 0.325 | 0.102 | mg/kg | 10 | | 07/28/21 01:01 |
| Cadmium | 0.436 | 0.217 | 0.0673 | mg/kg | 10 | | 07/28/21 01:01 |
| Chromium | 34.2 | 1.08 | 0.336 | mg/kg | 10 | | 07/28/21 01:01 |
| Lead | 33.1 | 0.217 | 0.0673 | mg/kg | 10 | | 07/28/21 01:01 |
| Mercury | 0.325 U | 0.325 | 0.108 | mg/kg | 10 | | 07/28/21 01:01 |
| Selenium | 2.17 U | 2.17 | 0.673 | mg/kg | 10 | | 07/28/21 01:01 |
| Silver | 0.542 U | 0.542 | 0.163 | mg/kg | 10 | | 07/28/21 01:01 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 01:01
Container ID: 1214357032-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.018 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of N19

Client Sample ID: **N19**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357032
Lab Project ID: 1214357

Collection Date: 07/15/21 09:53
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.6
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 55.1 U | 55.1 | 13.8 | ug/kg | 1 | | 07/22/21 07:37 |
| Aroclor-1221 | 110 U | 110 | 27.6 | ug/kg | 1 | | 07/22/21 07:37 |
| Aroclor-1232 | 55.1 U | 55.1 | 13.8 | ug/kg | 1 | | 07/22/21 07:37 |
| Aroclor-1242 | 55.1 U | 55.1 | 13.8 | ug/kg | 1 | | 07/22/21 07:37 |
| Aroclor-1248 | 55.1 U | 55.1 | 13.8 | ug/kg | 1 | | 07/22/21 07:37 |
| Aroclor-1254 | 55.1 U | 55.1 | 13.8 | ug/kg | 1 | | 07/22/21 07:37 |
| Aroclor-1260 | 55.1 U | 55.1 | 13.8 | ug/kg | 1 | | 07/22/21 07:37 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 65 | 60-125 | | % | 1 | | 07/22/21 07:37 |

Batch Information

Analytical Batch: XGC10938
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/22/21 07:37
Container ID: 1214357032-A

Prep Batch: XXX45202
Prep Method: SW3550C
Prep Date/Time: 07/21/21 08:16
Prep Initial Wt./Vol.: 22.533 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N19

Client Sample ID: **N19**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357032
 Lab Project ID: 1214357

Collection Date: 07/15/21 09:53
 Received Date: 07/16/21 15:44
 Matrix: Soil/Solid (dry weight)
 Solids (%):90.6
 Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| 2-Methylnaphthalene | 37.5 | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Acenaphthene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Acenaphthylene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Anthracene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Benzo(a)Anthracene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Benzo[a]pyrene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Benzo[b]Fluoranthene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Benzo[g,h,i]perylene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Benzo[k]fluoranthene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Chrysene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Dibenzo[a,h]anthracene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Fluoranthene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Fluorene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Indeno[1,2,3-c,d] pyrene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Naphthalene | 22.1 U | 22.1 | 5.51 | ug/kg | 1 | | 07/27/21 22:29 |
| Phenanthrene | 36.1 | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Pyrene | 27.6 U | 27.6 | 6.89 | ug/kg | 1 | | 07/27/21 22:29 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 84.5 | 58-103 | | % | 1 | | 07/27/21 22:29 |
| Fluoranthene-d10 (surr) | 88.2 | 54-113 | | % | 1 | | 07/27/21 22:29 |

Batch Information

Analytical Batch: XMS12782
 Analytical Method: 8270D SIM (PAH)
 Analyst: LAW
 Analytical Date/Time: 07/27/21 22:29
 Container ID: 1214357032-A

Prep Batch: XXX45216
 Prep Method: SW3550C
 Prep Date/Time: 07/23/21 12:00
 Prep Initial Wt./Vol.: 22.532 g
 Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N19

Client Sample ID: **N19**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357032
Lab Project ID: 1214357

Collection Date: 07/15/21 09:53
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.6
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 733 | 21.9 | 6.80 | mg/kg | 1 | | 07/21/21 23:21 |

Surrogates

| | | | | | | | |
|----------------------|-----|--------|--|---|---|--|----------------|
| 5a Androstane (surr) | 102 | 50-150 | | % | 1 | | 07/21/21 23:21 |
|----------------------|-----|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 23:21
Container ID: 1214357032-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.212 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 1360 | 110 | 47.2 | mg/kg | 1 | | 07/21/21 23:21 |

Surrogates

| | | | | | | | |
|--------------------------|------|--------|--|---|---|--|----------------|
| n-Triacontane-d62 (surr) | 94.7 | 50-150 | | % | 1 | | 07/21/21 23:21 |
|--------------------------|------|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 23:21
Container ID: 1214357032-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.212 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N19

Client Sample ID: **N19**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357032
Lab Project ID: 1214357

Collection Date: 07/15/21 09:53
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.6
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 1.97 U | 1.97 | 0.591 | mg/kg | 1 | | 07/28/21 20:12 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 87.8 | 50-150 | | % | 1 | | 07/28/21 20:12 |

Batch Information

Analytical Batch: VFC15738
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 20:12
Container ID: 1214357032-C

Prep Batch: VXX37524
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:53
Prep Initial Wt./Vol.: 95.36 g
Prep Extract Vol: 34.0115 mL

Print Date: 08/13/2021 2:31:59PM



Results of N19

Client Sample ID: N19
Client Project ID: Danger Bay
Lab Sample ID: 1214357032
Lab Project ID: 1214357

Collection Date: 07/15/21 09:53
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.6
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 15.8 U | 15.8 | 4.88 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,1,1-Trichloroethane | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,1,2,2-Tetrachloroethane | 1.58 U | 1.58 | 0.488 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,1,2-Trichloroethane | 0.630 U | 0.630 | 0.197 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,1-Dichloroethane | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,1-Dichloroethene | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,1-Dichloropropene | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,2,3-Trichlorobenzene | 39.4 U | 39.4 | 11.8 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,2,3-Trichloropropane | 1.58 U | 1.58 | 0.488 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,2,4-Trichlorobenzene | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,2,4-Trimethylbenzene | 39.4 U | 39.4 | 11.8 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,2-Dibromo-3-chloropropane | 78.8 U | 78.8 | 24.4 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,2-Dibromoethane | 0.788 U | 0.788 | 0.315 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,2-Dichlorobenzene | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,2-Dichloroethane | 1.58 U | 1.58 | 0.551 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,2-Dichloropropane | 7.88 U | 7.88 | 2.44 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,3,5-Trimethylbenzene | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,3-Dichlorobenzene | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,3-Dichloropropane | 7.88 U | 7.88 | 2.44 | ug/kg | 1 | | 07/27/21 15:24 |
| 1,4-Dichlorobenzene | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| 2,2-Dichloropropane | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| 2-Butanone (MEK) | 197 U | 197 | 61.4 | ug/kg | 1 | | 07/27/21 15:24 |
| 2-Chlorotoluene | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| 2-Hexanone | 78.8 U | 78.8 | 24.4 | ug/kg | 1 | | 07/27/21 15:24 |
| 4-Chlorotoluene | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| 4-Isopropyltoluene | 78.8 U | 78.8 | 19.7 | ug/kg | 1 | | 07/27/21 15:24 |
| 4-Methyl-2-pentanone (MIBK) | 197 U | 197 | 61.4 | ug/kg | 1 | | 07/27/21 15:24 |
| Acetone | 197 U | 197 | 61.4 | ug/kg | 1 | | 07/27/21 15:24 |
| Benzene | 9.85 U | 9.85 | 3.07 | ug/kg | 1 | | 07/27/21 15:24 |
| Bromobenzene | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| Bromochloromethane | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| Bromodichloromethane | 1.58 U | 1.58 | 0.488 | ug/kg | 1 | | 07/27/21 15:24 |
| Bromoform | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |
| Bromomethane | 15.8 U | 15.8 | 4.88 | ug/kg | 1 | | 07/27/21 15:24 |
| Carbon disulfide | 78.8 U | 78.8 | 24.4 | ug/kg | 1 | | 07/27/21 15:24 |
| Carbon tetrachloride | 9.85 U | 9.85 | 3.07 | ug/kg | 1 | | 07/27/21 15:24 |
| Chlorobenzene | 19.7 U | 19.7 | 6.14 | ug/kg | 1 | | 07/27/21 15:24 |

Print Date: 08/13/2021 2:31:59PM



Results of N19

Client Sample ID: N19
Client Project ID: Danger Bay
Lab Sample ID: 1214357032
Lab Project ID: 1214357

Collection Date: 07/15/21 09:53
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.6
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of N19

Client Sample ID: **N19**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357032
Lab Project ID: 1214357

Collection Date: 07/15/21 09:53
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.6
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20975
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/27/21 15:24
Container ID: 1214357032-C

Prep Batch: VXX37511
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:53
Prep Initial Wt./Vol.: 95.36 g
Prep Extract Vol: 34.0115 mL

Print Date: 08/13/2021 2:31:59PM



Results of N19

Client Sample ID: **N19**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357032
Lab Project ID: 1214357

Collection Date: 07/15/21 09:53
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.6
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.0985 U | 0.0985 | 0.0244 | ug/kg | 1 | | 07/27/21 01:16 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 96.5 | 55-151 | | % | 1 | | 07/27/21 01:16 |
| Toluene-d8 (surr) | 100 | 85-116 | | % | 1 | | 07/27/21 01:16 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/27/21 01:16
Container ID: 1214357032-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:53
Prep Initial Wt./Vol.: 95.36 g
Prep Extract Vol: 34.0115 mL

Print Date: 08/13/2021 2:31:59PM



Results of N20

Client Sample ID: **N20**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357033
Lab Project ID: 1214357

Collection Date: 07/15/21 10:50
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.2
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 12.7 | 1.06 | 0.329 | mg/kg | 10 | | 07/27/21 23:00 |
| Barium | 30.7 | 0.318 | 0.0997 | mg/kg | 10 | | 07/27/21 23:00 |
| Cadmium | 0.290 | 0.212 | 0.0657 | mg/kg | 10 | | 07/27/21 23:00 |
| Chromium | 36.5 | 1.06 | 0.329 | mg/kg | 10 | | 07/27/21 23:00 |
| Lead | 22.0 | 0.212 | 0.0657 | mg/kg | 10 | | 07/27/21 23:00 |
| Mercury | 0.318 U | 0.318 | 0.106 | mg/kg | 10 | | 07/27/21 23:00 |
| Selenium | 2.12 U | 2.12 | 0.657 | mg/kg | 10 | | 07/27/21 23:00 |
| Silver | 0.530 U | 0.530 | 0.159 | mg/kg | 10 | | 07/27/21 23:00 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/27/21 23:00
Container ID: 1214357033-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.046 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of N20

Client Sample ID: **N20**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357033
 Lab Project ID: 1214357

Collection Date: 07/15/21 10:50
 Received Date: 07/16/21 15:44
 Matrix: Soil/Solid (dry weight)
 Solids (%):90.2
 Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 55.1 U | 55.1 | 13.8 | ug/kg | 1 | | 07/22/21 07:27 |
| Aroclor-1221 | 110 U | 110 | 27.5 | ug/kg | 1 | | 07/22/21 07:27 |
| Aroclor-1232 | 55.1 U | 55.1 | 13.8 | ug/kg | 1 | | 07/22/21 07:27 |
| Aroclor-1242 | 55.1 U | 55.1 | 13.8 | ug/kg | 1 | | 07/22/21 07:27 |
| Aroclor-1248 | 55.1 U | 55.1 | 13.8 | ug/kg | 1 | | 07/22/21 07:27 |
| Aroclor-1254 | 55.1 U | 55.1 | 13.8 | ug/kg | 1 | | 07/22/21 07:27 |
| Aroclor-1260 | 55.1 U | 55.1 | 13.8 | ug/kg | 1 | | 07/22/21 07:27 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 75 | 60-125 | | % | 1 | | 07/22/21 07:27 |

Batch Information

Analytical Batch: XGC10938
 Analytical Method: SW8082A
 Analyst: CDM
 Analytical Date/Time: 07/22/21 07:27
 Container ID: 1214357033-A

Prep Batch: XXX45202
 Prep Method: SW3550C
 Prep Date/Time: 07/21/21 08:16
 Prep Initial Wt./Vol.: 22.661 g
 Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N20

Client Sample ID: **N20**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357033
Lab Project ID: 1214357

Collection Date: 07/15/21 10:50
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.2
Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| 2-Methylnaphthalene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Acenaphthene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Acenaphthylene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Anthracene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Benzo(a)Anthracene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Benzo[a]pyrene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Benzo[b]Fluoranthene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Benzo[g,h,i]perylene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Benzo[k]fluoranthene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Chrysene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Dibenzo[a,h]anthracene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Fluoranthene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Fluorene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Indeno[1,2,3-c,d] pyrene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Naphthalene | 21.9 U | 21.9 | 5.49 | ug/kg | 1 | | 07/27/21 22:50 |
| Phenanthrene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Pyrene | 27.4 U | 27.4 | 6.86 | ug/kg | 1 | | 07/27/21 22:50 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 91.9 | 58-103 | | % | 1 | | 07/27/21 22:50 |
| Fluoranthene-d10 (surr) | 90.2 | 54-113 | | % | 1 | | 07/27/21 22:50 |

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 22:50
Container ID: 1214357033-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.74 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N20

Client Sample ID: **N20**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357033
Lab Project ID: 1214357

Collection Date: 07/15/21 10:50
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.2
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 120 | 21.9 | 6.80 | mg/kg | 1 | | 07/21/21 21:00 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 98.3 | 50-150 | | % | 1 | | 07/21/21 21:00 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 21:00
Container ID: 1214357033-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.331 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 764 | 110 | 47.2 | mg/kg | 1 | | 07/21/21 21:00 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 98.4 | 50-150 | | % | 1 | | 07/21/21 21:00 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 21:00
Container ID: 1214357033-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.331 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N20

Client Sample ID: **N20**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357033
Lab Project ID: 1214357

Collection Date: 07/15/21 10:50
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.2
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.16 U | 2.16 | 0.648 | mg/kg | 1 | | 07/28/21 20:30 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 91.9 | 50-150 | | % | 1 | | 07/28/21 20:30 |

Batch Information

Analytical Batch: VFC15738
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 20:30
Container ID: 1214357033-C

Prep Batch: VXX37524
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:50
Prep Initial Wt./Vol.: 85.986 g
Prep Extract Vol: 33.4643 mL

Print Date: 08/13/2021 2:31:59PM



Results of N20

Client Sample ID: N20
Client Project ID: Danger Bay
Lab Sample ID: 1214357033
Lab Project ID: 1214357

Collection Date: 07/15/21 10:50
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.2
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 17.3 U | 17.3 | 5.35 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,1,1-Trichloroethane | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,1,2,2-Tetrachloroethane | 1.73 U | 1.73 | 0.535 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,1,2-Trichloroethane | 0.691 U | 0.691 | 0.216 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,1-Dichloroethane | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,1-Dichloroethene | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,1-Dichloropropene | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,2,3-Trichlorobenzene | 43.2 U | 43.2 | 13.0 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,2,3-Trichloropropane | 1.73 U | 1.73 | 0.535 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,2,4-Trichlorobenzene | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,2,4-Trimethylbenzene | 43.2 U | 43.2 | 13.0 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,2-Dibromo-3-chloropropane | 86.3 U | 86.3 | 26.8 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,2-Dibromoethane | 0.863 U | 0.863 | 0.345 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,2-Dichlorobenzene | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,2-Dichloroethane | 1.73 U | 1.73 | 0.604 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,2-Dichloropropane | 8.63 U | 8.63 | 2.68 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,3,5-Trimethylbenzene | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,3-Dichlorobenzene | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,3-Dichloropropane | 8.63 U | 8.63 | 2.68 | ug/kg | 1 | | 07/27/21 15:41 |
| 1,4-Dichlorobenzene | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| 2,2-Dichloropropane | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| 2-Butanone (MEK) | 216 U | 216 | 67.3 | ug/kg | 1 | | 07/27/21 15:41 |
| 2-Chlorotoluene | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| 2-Hexanone | 86.3 U | 86.3 | 26.8 | ug/kg | 1 | | 07/27/21 15:41 |
| 4-Chlorotoluene | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| 4-Isopropyltoluene | 86.3 U | 86.3 | 21.6 | ug/kg | 1 | | 07/27/21 15:41 |
| 4-Methyl-2-pentanone (MIBK) | 216 U | 216 | 67.3 | ug/kg | 1 | | 07/27/21 15:41 |
| Acetone | 216 U | 216 | 67.3 | ug/kg | 1 | | 07/27/21 15:41 |
| Benzene | 10.8 U | 10.8 | 3.37 | ug/kg | 1 | | 07/27/21 15:41 |
| Bromobenzene | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| Bromochloromethane | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| Bromodichloromethane | 1.73 U | 1.73 | 0.535 | ug/kg | 1 | | 07/27/21 15:41 |
| Bromoform | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |
| Bromomethane | 17.3 U | 17.3 | 5.35 | ug/kg | 1 | | 07/27/21 15:41 |
| Carbon disulfide | 86.3 U | 86.3 | 26.8 | ug/kg | 1 | | 07/27/21 15:41 |
| Carbon tetrachloride | 10.8 U | 10.8 | 3.37 | ug/kg | 1 | | 07/27/21 15:41 |
| Chlorobenzene | 21.6 U | 21.6 | 6.73 | ug/kg | 1 | | 07/27/21 15:41 |

Print Date: 08/13/2021 2:31:59PM



Results of N20

Client Sample ID: N20
Client Project ID: Danger Bay
Lab Sample ID: 1214357033
Lab Project ID: 1214357

Collection Date: 07/15/21 10:50
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.2
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of N20

Client Sample ID: **N20**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357033
Lab Project ID: 1214357

Collection Date: 07/15/21 10:50
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.2
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20975
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/27/21 15:41
Container ID: 1214357033-C

Prep Batch: VXX37511
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:50
Prep Initial Wt./Vol.: 85.986 g
Prep Extract Vol: 33.4643 mL

Print Date: 08/13/2021 2:31:59PM



Results of N20

Client Sample ID: **N20**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357033
Lab Project ID: 1214357

Collection Date: 07/15/21 10:50
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.2
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.108 U | 0.108 | 0.0268 | ug/kg | 1 | | 07/27/21 01:31 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 94.3 | 55-151 | | % | 1 | | 07/27/21 01:31 |
| Toluene-d8 (surr) | 102 | 85-116 | | % | 1 | | 07/27/21 01:31 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/27/21 01:31
Container ID: 1214357033-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:50
Prep Initial Wt./Vol.: 85.986 g
Prep Extract Vol: 33.4643 mL

Print Date: 08/13/2021 2:31:59PM



Results of N25

Client Sample ID: **N25**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357034
Lab Project ID: 1214357

Collection Date: 07/15/21 10:34
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 10.5 | 1.08 | 0.334 | mg/kg | 10 | | 07/28/21 01:05 |
| Barium | 30.1 | 0.323 | 0.101 | mg/kg | 10 | | 07/28/21 01:05 |
| Cadmium | 0.238 | 0.216 | 0.0668 | mg/kg | 10 | | 07/28/21 01:05 |
| Chromium | 34.0 | 1.08 | 0.334 | mg/kg | 10 | | 07/28/21 01:05 |
| Lead | 20.0 | 0.216 | 0.0668 | mg/kg | 10 | | 07/28/21 01:05 |
| Mercury | 0.346 | 0.323 | 0.108 | mg/kg | 10 | | 07/28/21 01:05 |
| Selenium | 2.16 U | 2.16 | 0.668 | mg/kg | 10 | | 07/28/21 01:05 |
| Silver | 0.539 U | 0.539 | 0.162 | mg/kg | 10 | | 07/28/21 01:05 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 01:05
Container ID: 1214357034-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.008 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of N25

Client Sample ID: **N25**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357034
Lab Project ID: 1214357

Collection Date: 07/15/21 10:34
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 54.1 U | 54.1 | 13.5 | ug/kg | 1 | | 07/22/21 07:17 |
| Aroclor-1221 | 108 U | 108 | 27.1 | ug/kg | 1 | | 07/22/21 07:17 |
| Aroclor-1232 | 54.1 U | 54.1 | 13.5 | ug/kg | 1 | | 07/22/21 07:17 |
| Aroclor-1242 | 54.1 U | 54.1 | 13.5 | ug/kg | 1 | | 07/22/21 07:17 |
| Aroclor-1248 | 54.1 U | 54.1 | 13.5 | ug/kg | 1 | | 07/22/21 07:17 |
| Aroclor-1254 | 54.1 U | 54.1 | 13.5 | ug/kg | 1 | | 07/22/21 07:17 |
| Aroclor-1260 | 54.1 U | 54.1 | 13.5 | ug/kg | 1 | | 07/22/21 07:17 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 75 | 60-125 | | % | 1 | | 07/22/21 07:17 |

Batch Information

Analytical Batch: XGC10938
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/22/21 07:17
Container ID: 1214357034-A

Prep Batch: XXX45202
Prep Method: SW3550C
Prep Date/Time: 07/21/21 08:16
Prep Initial Wt./Vol.: 22.59 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N25

Client Sample ID: N25
Client Project ID: Danger Bay
Lab Sample ID: 1214357034
Lab Project ID: 1214357

Collection Date: 07/15/21 10:34
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| 2-Methylnaphthalene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Acenaphthene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Acenaphthylene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Anthracene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Benzo(a)Anthracene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Benzo[a]pyrene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Benzo[b]Fluoranthene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Benzo[g,h,i]perylene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Benzo[k]fluoranthene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Chrysene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Dibenzo[a,h]anthracene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Fluoranthene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Fluorene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Indeno[1,2,3-c,d] pyrene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Naphthalene | 21.6 U | 21.6 | 5.41 | ug/kg | 1 | | 07/27/21 17:01 |
| Phenanthrene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Pyrene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 07/27/21 17:01 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 93.1 | 58-103 | | % | 1 | | 07/27/21 17:01 |
| Fluoranthene-d10 (surr) | 87.4 | 54-113 | | % | 1 | | 07/27/21 17:01 |

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 07/27/21 17:01
Container ID: 1214357034-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.605 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N25

Client Sample ID: **N25**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357034
Lab Project ID: 1214357

Collection Date: 07/15/21 10:34
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 68.6 | 21.4 | 6.63 | mg/kg | 1 | | 07/21/21 21:10 |

Surrogates

| | | | | | | | |
|----------------------|-----|--------|--|---|---|--|----------------|
| 5a Androstane (surr) | 101 | 50-150 | | % | 1 | | 07/21/21 21:10 |
|----------------------|-----|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 21:10
Container ID: 1214357034-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.5 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 282 | 107 | 46.0 | mg/kg | 1 | | 07/21/21 21:10 |

Surrogates

| | | | | | | | |
|--------------------------|-----|--------|--|---|---|--|----------------|
| n-Triacontane-d62 (surr) | 104 | 50-150 | | % | 1 | | 07/21/21 21:10 |
|--------------------------|-----|--------|--|---|---|--|----------------|

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 21:10
Container ID: 1214357034-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.5 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N25

Client Sample ID: **N25**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357034
Lab Project ID: 1214357

Collection Date: 07/15/21 10:34
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.15 U | 2.15 | 0.645 | mg/kg | 1 | | 07/28/21 20:48 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 84.6 | 50-150 | | % | 1 | | 07/28/21 20:48 |

Batch Information

Analytical Batch: VFC15738
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 20:48
Container ID: 1214357034-C

Prep Batch: VXX37524
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:34
Prep Initial Wt./Vol.: 79.02 g
Prep Extract Vol: 31.2876 mL

Print Date: 08/13/2021 2:31:59PM



Results of N25

Client Sample ID: N25
Client Project ID: Danger Bay
Lab Sample ID: 1214357034
Lab Project ID: 1214357

Collection Date: 07/15/21 10:34
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 17.2 U | 17.2 | 5.33 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,1,1-Trichloroethane | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,1,2,2-Tetrachloroethane | 1.72 U | 1.72 | 0.533 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,1,2-Trichloroethane | 0.688 U | 0.688 | 0.215 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,1-Dichloroethane | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,1-Dichloroethene | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,1-Dichloropropene | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,2,3-Trichlorobenzene | 43.0 U | 43.0 | 12.9 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,2,3-Trichloropropane | 1.72 U | 1.72 | 0.533 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,2,4-Trichlorobenzene | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,2,4-Trimethylbenzene | 43.0 U | 43.0 | 12.9 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,2-Dibromo-3-chloropropane | 86.0 U | 86.0 | 26.7 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,2-Dibromoethane | 0.860 U | 0.860 | 0.344 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,2-Dichlorobenzene | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,2-Dichloroethane | 1.72 U | 1.72 | 0.602 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,2-Dichloropropane | 8.60 U | 8.60 | 2.67 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,3,5-Trimethylbenzene | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,3-Dichlorobenzene | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,3-Dichloropropane | 8.60 U | 8.60 | 2.67 | ug/kg | 1 | | 07/27/21 15:57 |
| 1,4-Dichlorobenzene | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| 2,2-Dichloropropane | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| 2-Butanone (MEK) | 215 U | 215 | 67.1 | ug/kg | 1 | | 07/27/21 15:57 |
| 2-Chlorotoluene | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| 2-Hexanone | 86.0 U | 86.0 | 26.7 | ug/kg | 1 | | 07/27/21 15:57 |
| 4-Chlorotoluene | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| 4-Isopropyltoluene | 86.0 U | 86.0 | 21.5 | ug/kg | 1 | | 07/27/21 15:57 |
| 4-Methyl-2-pentanone (MIBK) | 215 U | 215 | 67.1 | ug/kg | 1 | | 07/27/21 15:57 |
| Acetone | 215 U | 215 | 67.1 | ug/kg | 1 | | 07/27/21 15:57 |
| Benzene | 10.8 U | 10.8 | 3.36 | ug/kg | 1 | | 07/27/21 15:57 |
| Bromobenzene | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| Bromochloromethane | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| Bromodichloromethane | 1.72 U | 1.72 | 0.533 | ug/kg | 1 | | 07/27/21 15:57 |
| Bromoform | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |
| Bromomethane | 17.2 U | 17.2 | 5.33 | ug/kg | 1 | | 07/27/21 15:57 |
| Carbon disulfide | 86.0 U | 86.0 | 26.7 | ug/kg | 1 | | 07/27/21 15:57 |
| Carbon tetrachloride | 10.8 U | 10.8 | 3.36 | ug/kg | 1 | | 07/27/21 15:57 |
| Chlorobenzene | 21.5 U | 21.5 | 6.71 | ug/kg | 1 | | 07/27/21 15:57 |

Print Date: 08/13/2021 2:31:59PM



Results of N25

Client Sample ID: N25
Client Project ID: Danger Bay
Lab Sample ID: 1214357034
Lab Project ID: 1214357

Collection Date: 07/15/21 10:34
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical parameters such as Chloroethane, Chloroform, and Hexachlorobutadiene with their respective values and analysis dates.

Print Date: 08/13/2021 2:31:59PM



Results of N25

Client Sample ID: **N25**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357034
Lab Project ID: 1214357

Collection Date: 07/15/21 10:34
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20975
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/27/21 15:57
Container ID: 1214357034-C

Prep Batch: VXX37511
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:34
Prep Initial Wt./Vol.: 79.02 g
Prep Extract Vol: 31.2876 mL

Print Date: 08/13/2021 2:31:59PM



Results of N25

Client Sample ID: **N25**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357034
Lab Project ID: 1214357

Collection Date: 07/15/21 10:34
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):92.0
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.108 U | 0.108 | 0.0267 | ug/kg | 1 | | 07/27/21 01:46 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 96.6 | 55-151 | | % | 1 | | 07/27/21 01:46 |
| Toluene-d8 (surr) | 100 | 85-116 | | % | 1 | | 07/27/21 01:46 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/27/21 01:46
Container ID: 1214357034-C

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/15/21 10:34
Prep Initial Wt./Vol.: 79.02 g
Prep Extract Vol: 31.2876 mL

Print Date: 08/13/2021 2:31:59PM



Results of N26

Client Sample ID: **N26**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357035
Lab Project ID: 1214357

Collection Date: 07/15/21 09:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.9
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 9.40 | 1.08 | 0.335 | mg/kg | 10 | | 07/28/21 01:09 |
| Barium | 32.7 | 0.325 | 0.102 | mg/kg | 10 | | 07/28/21 01:09 |
| Cadmium | 0.473 | 0.216 | 0.0671 | mg/kg | 10 | | 07/28/21 01:09 |
| Chromium | 35.4 | 1.08 | 0.335 | mg/kg | 10 | | 07/28/21 01:09 |
| Lead | 31.2 | 0.216 | 0.0671 | mg/kg | 10 | | 07/28/21 01:09 |
| Mercury | 0.325 U | 0.325 | 0.108 | mg/kg | 10 | | 07/28/21 01:09 |
| Selenium | 2.16 U | 2.16 | 0.671 | mg/kg | 10 | | 07/28/21 01:09 |
| Silver | 0.541 U | 0.541 | 0.162 | mg/kg | 10 | | 07/28/21 01:09 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 01:09
Container ID: 1214357035-A

Prep Batch: MX34441
Prep Method: SW3050B
Prep Date/Time: 07/23/21 09:18
Prep Initial Wt./Vol.: 1.017 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:31:59PM



Results of N26

Client Sample ID: **N26**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357035
Lab Project ID: 1214357

Collection Date: 07/15/21 09:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.9
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 54.8 U | 54.8 | 13.7 | ug/kg | 1 | | 07/22/21 07:06 |
| Aroclor-1221 | 110 U | 110 | 27.4 | ug/kg | 1 | | 07/22/21 07:06 |
| Aroclor-1232 | 54.8 U | 54.8 | 13.7 | ug/kg | 1 | | 07/22/21 07:06 |
| Aroclor-1242 | 54.8 U | 54.8 | 13.7 | ug/kg | 1 | | 07/22/21 07:06 |
| Aroclor-1248 | 54.8 U | 54.8 | 13.7 | ug/kg | 1 | | 07/22/21 07:06 |
| Aroclor-1254 | 54.8 U | 54.8 | 13.7 | ug/kg | 1 | | 07/22/21 07:06 |
| Aroclor-1260 | 54.8 U | 54.8 | 13.7 | ug/kg | 1 | | 07/22/21 07:06 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 67.5 | 60-125 | | % | 1 | | 07/22/21 07:06 |

Batch Information

Analytical Batch: XGC10938
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/22/21 07:06
Container ID: 1214357035-A

Prep Batch: XXX45202
Prep Method: SW3550C
Prep Date/Time: 07/21/21 08:16
Prep Initial Wt./Vol.: 22.59 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N26

Client Sample ID: **N26**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357035
Lab Project ID: 1214357

Collection Date: 07/15/21 09:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.9
Location:

Results by Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| 2-Methylnaphthalene | 37.9 | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Acenaphthene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Acenaphthylene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Anthracene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Benzo(a)Anthracene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Benzo[a]pyrene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Benzo[b]Fluoranthene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Benzo[g,h,i]perylene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Benzo[k]fluoranthene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Chrysene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Dibenzo[a,h]anthracene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Fluoranthene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Fluorene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Indeno[1,2,3-c,d] pyrene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Naphthalene | 21.6 U | 21.6 | 5.41 | ug/kg | 1 | | 08/04/21 11:36 |
| Phenanthrene | 38.1 | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Pyrene | 27.0 U | 27.0 | 6.76 | ug/kg | 1 | | 08/04/21 11:36 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 76.7 | 58-103 | | % | 1 | | 08/04/21 11:36 |
| Fluoranthene-d10 (surr) | 88.9 | 54-113 | | % | 1 | | 08/04/21 11:36 |

Batch Information

Analytical Batch: XMS12799
Analytical Method: 8270D SIM (PAH)
Analyst: LAW
Analytical Date/Time: 08/04/21 11:36
Container ID: 1214357035-A

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 07/23/21 12:00
Prep Initial Wt./Vol.: 22.891 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N26

Client Sample ID: **N26**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357035
Lab Project ID: 1214357

Collection Date: 07/15/21 09:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.9
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 836 | 22.0 | 6.81 | mg/kg | 1 | | 07/21/21 21:20 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 102 | 50-150 | | % | 1 | | 07/21/21 21:20 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Analyst: IVM
Analytical Date/Time: 07/21/21 21:20
Container ID: 1214357035-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.067 g
Prep Extract Vol: 5 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 1560 | 110 | 47.2 | mg/kg | 1 | | 07/21/21 21:20 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 97.3 | 50-150 | | % | 1 | | 07/21/21 21:20 |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Analyst: IVM
Analytical Date/Time: 07/21/21 21:20
Container ID: 1214357035-A

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 07/21/21 14:37
Prep Initial Wt./Vol.: 30.067 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of N26

Client Sample ID: **N26**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357035
Lab Project ID: 1214357

Collection Date: 07/15/21 09:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.9
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 1.80 U | 1.80 | 0.539 | mg/kg | 1 | | 07/28/21 21:06 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 90 | 50-150 | | % | 1 | | 07/28/21 21:06 |

Batch Information

Analytical Batch: VFC15738
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 21:06
Container ID: 1214357035-C

Prep Batch: VXX37524
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:47
Prep Initial Wt./Vol.: 106.27 g
Prep Extract Vol: 34.7078 mL

Print Date: 08/13/2021 2:31:59PM



Results of N26

Client Sample ID: N26
Client Project ID: Danger Bay
Lab Sample ID: 1214357035
Lab Project ID: 1214357

Collection Date: 07/15/21 09:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.9
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 14.4 U | 14.4 | 4.46 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,1,1-Trichloroethane | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,1,2,2-Tetrachloroethane | 1.44 U | 1.44 | 0.446 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,1,2-Trichloroethane | 0.575 U | 0.575 | 0.180 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,1-Dichloroethane | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,1-Dichloroethene | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,1-Dichloropropene | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,2,3-Trichlorobenzene | 35.9 U | 35.9 | 10.8 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,2,3-Trichloropropane | 1.44 U | 1.44 | 0.446 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,2,4-Trichlorobenzene | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,2,4-Trimethylbenzene | 35.9 U | 35.9 | 10.8 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,2-Dibromo-3-chloropropane | 71.9 U | 71.9 | 22.3 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,2-Dibromoethane | 0.719 U | 0.719 | 0.288 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,2-Dichlorobenzene | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,2-Dichloroethane | 1.44 U | 1.44 | 0.503 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,2-Dichloropropane | 7.19 U | 7.19 | 2.23 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,3,5-Trimethylbenzene | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,3-Dichlorobenzene | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,3-Dichloropropane | 7.19 U | 7.19 | 2.23 | ug/kg | 1 | | 07/27/21 16:14 |
| 1,4-Dichlorobenzene | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| 2,2-Dichloropropane | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| 2-Butanone (MEK) | 180 U | 180 | 56.1 | ug/kg | 1 | | 07/27/21 16:14 |
| 2-Chlorotoluene | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| 2-Hexanone | 71.9 U | 71.9 | 22.3 | ug/kg | 1 | | 07/27/21 16:14 |
| 4-Chlorotoluene | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| 4-Isopropyltoluene | 71.9 U | 71.9 | 18.0 | ug/kg | 1 | | 07/27/21 16:14 |
| 4-Methyl-2-pentanone (MIBK) | 180 U | 180 | 56.1 | ug/kg | 1 | | 07/27/21 16:14 |
| Acetone | 180 U | 180 | 56.1 | ug/kg | 1 | | 07/27/21 16:14 |
| Benzene | 8.99 U | 8.99 | 2.80 | ug/kg | 1 | | 07/27/21 16:14 |
| Bromobenzene | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| Bromochloromethane | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| Bromodichloromethane | 1.44 U | 1.44 | 0.446 | ug/kg | 1 | | 07/27/21 16:14 |
| Bromoform | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |
| Bromomethane | 14.4 U | 14.4 | 4.46 | ug/kg | 1 | | 07/27/21 16:14 |
| Carbon disulfide | 71.9 U | 71.9 | 22.3 | ug/kg | 1 | | 07/27/21 16:14 |
| Carbon tetrachloride | 8.99 U | 8.99 | 2.80 | ug/kg | 1 | | 07/27/21 16:14 |
| Chlorobenzene | 18.0 U | 18.0 | 5.61 | ug/kg | 1 | | 07/27/21 16:14 |

Print Date: 08/13/2021 2:31:59PM



Results of N26

Client Sample ID: N26
Client Project ID: Danger Bay
Lab Sample ID: 1214357035
Lab Project ID: 1214357

Collection Date: 07/15/21 09:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.9
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical parameters like Chloroethane, Chloroform, etc., with their respective values and analysis dates.

Print Date: 08/13/2021 2:31:59PM



Results of N26

Client Sample ID: **N26**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357035
Lab Project ID: 1214357

Collection Date: 07/15/21 09:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.9
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20975
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/27/21 16:14
Container ID: 1214357035-C

Prep Batch: VXX37511
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:47
Prep Initial Wt./Vol.: 106.27 g
Prep Extract Vol: 34.7078 mL

Print Date: 08/13/2021 2:31:59PM



Results of N26

Client Sample ID: **N26**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357035
Lab Project ID: 1214357

Collection Date: 07/15/21 09:47
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):90.9
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.0899 U | 0.0899 | 0.0223 | ug/kg | 1 | | 07/29/21 15:12 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 101 | 55-151 | | % | 1 | | 07/29/21 15:12 |
| Toluene-d8 (surr) | 99.6 | 85-116 | | % | 1 | | 07/29/21 15:12 |

Batch Information

Analytical Batch: VMS20985
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/29/21 15:12
Container ID: 1214357035-C

Prep Batch: VXX37530
Prep Method: SW5035A
Prep Date/Time: 07/15/21 09:47
Prep Initial Wt./Vol.: 106.27 g
Prep Extract Vol: 34.7078 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27W1

Client Sample ID: **TH27W1**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357036
Lab Project ID: 1214357

Collection Date: 07/15/21 13:00
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 10.0 U | 10.0 | 3.10 | ug/L | 5 | | 07/28/21 05:55 |
| Barium | 11.0 | 3.00 | 0.940 | ug/L | 5 | | 07/28/21 05:55 |
| Cadmium | 2.00 U | 2.00 | 0.620 | ug/L | 5 | | 07/28/21 05:55 |
| Chromium | 10.0 U | 10.0 | 3.10 | ug/L | 5 | | 07/28/21 05:55 |
| Lead | 3.97 | 1.00 | 0.310 | ug/L | 5 | | 07/28/21 05:55 |
| Mercury | 0.500 U | 0.500 | 0.180 | ug/L | 5 | | 07/28/21 05:55 |
| Selenium | 20.0 U | 20.0 | 6.20 | ug/L | 5 | | 07/28/21 05:55 |
| Silver | 2.00 U | 2.00 | 0.620 | ug/L | 5 | | 07/28/21 05:55 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 05:55
Container ID: 1214357036-P

Prep Batch: MX34434
Prep Method: SW3010A
Prep Date/Time: 07/21/21 13:04
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27W1

Client Sample ID: **TH27W1**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357036
Lab Project ID: 1214357

Collection Date: 07/15/21 13:00
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 0.105 U | 0.105 | 0.0325 | ug/L | 1 | | 07/27/21 23:35 |
| Aroclor-1221 | 1.05 U | 1.05 | 0.325 | ug/L | 1 | | 07/27/21 23:35 |
| Aroclor-1232 | 0.105 U | 0.105 | 0.0325 | ug/L | 1 | | 07/27/21 23:35 |
| Aroclor-1242 | 0.105 U | 0.105 | 0.0325 | ug/L | 1 | | 07/27/21 23:35 |
| Aroclor-1248 | 0.105 U | 0.105 | 0.0325 | ug/L | 1 | | 07/27/21 23:35 |
| Aroclor-1254 | 0.105 U | 0.105 | 0.0325 | ug/L | 1 | | 07/27/21 23:35 |
| Aroclor-1260 | 0.105 U | 0.105 | 0.0325 | ug/L | 1 | | 07/27/21 23:35 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 97.5 | 40-135 | | % | 1 | | 07/27/21 23:35 |

Batch Information

Analytical Batch: XGC10946
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/27/21 23:35
Container ID: 1214357036-E

Prep Batch: XXX45246
Prep Method: SW3520C
Prep Date/Time: 07/27/21 10:30
Prep Initial Wt./Vol.: 955 mL
Prep Extract Vol: 1 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27W1

Client Sample ID: TH27W1
Client Project ID: Danger Bay
Lab Sample ID: 1214357036
Lab Project ID: 1214357

Collection Date: 07/15/21 13:00
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Polynuclear Aromatics GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various polynuclear aromatic hydrocarbons and their surrogate values.

Batch Information

Analytical Batch: XMS12776
Analytical Method: 8270D SIM LV (PAH)
Analyst: LAW
Analytical Date/Time: 07/26/21 02:19
Container ID: 1214357036-C

Prep Batch: XXX45211
Prep Method: SW3535A
Prep Date/Time: 07/22/21 01:00
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL



Results of TH27W1

Client Sample ID: TH27W1
Client Project ID: Danger Bay
Lab Sample ID: 1214357036
Lab Project ID: 1214357

Collection Date: 07/15/21 13:00
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 0.577 U | 0.577 | 0.173 | mg/L | 1 | | 07/29/21 17:52 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 77 | 50-150 | | % | 1 | | 07/29/21 17:52 |

Batch Information

Analytical Batch: XFC16023
Analytical Method: AK102
Analyst: A.A
Analytical Date/Time: 07/29/21 17:52
Container ID: 1214357036-A

Prep Batch: XXX45258
Prep Method: SW3520C
Prep Date/Time: 07/28/21 15:15
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Residual Range Organics | 0.481 U | 0.481 | 0.144 | mg/L | 1 | | 07/29/21 17:52 |
| Surrogates | | | | | | | |
| n-Triacontane-d62 (surr) | 95.8 | 50-150 | | % | 1 | | 07/29/21 17:52 |

Batch Information

Analytical Batch: XFC16023
Analytical Method: AK103
Analyst: A.A
Analytical Date/Time: 07/29/21 17:52
Container ID: 1214357036-A

Prep Batch: XXX45258
Prep Method: SW3520C
Prep Date/Time: 07/28/21 15:15
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27W1

Client Sample ID: **TH27W1**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357036
Lab Project ID: 1214357

Collection Date: 07/15/21 13:00
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 0.100 U | 0.100 | 0.0310 | mg/L | 1 | | 07/21/21 06:46 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 68 | 50-150 | | % | 1 | | 07/21/21 06:46 |

Batch Information

Analytical Batch: VFC15722
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/21/21 06:46
Container ID: 1214357036-G

Prep Batch: VXX37460
Prep Method: SW5030B
Prep Date/Time: 07/20/21 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27W1

Client Sample ID: **TH27W1**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357036
 Lab Project ID: 1214357

Collection Date: 07/15/21 13:00
 Received Date: 07/16/21 15:44
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 07/22/21 22:02 |
| 1,1,1-Trichloroethane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 1,1,2,2-Tetrachloroethane | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 07/22/21 22:02 |
| 1,1,2-Trichloroethane | 0.400 U | 0.400 | 0.120 | ug/L | 1 | | 07/22/21 22:02 |
| 1,1-Dichloroethane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 1,1-Dichloroethene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 1,1-Dichloropropene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 1,2,3-Trichlorobenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 1,2,3-Trichloropropane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 1,2,4-Trichlorobenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 1,2,4-Trimethylbenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 1,2-Dibromo-3-chloropropane | 10.0 U | 10.0 | 3.10 | ug/L | 1 | | 07/22/21 22:02 |
| 1,2-Dibromoethane | 0.0750 U | 0.0750 | 0.0180 | ug/L | 1 | | 07/22/21 22:02 |
| 1,2-Dichlorobenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 1,2-Dichloroethane | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 07/22/21 22:02 |
| 1,2-Dichloropropane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 1,3,5-Trimethylbenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 1,3-Dichlorobenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 1,3-Dichloropropane | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 07/22/21 22:02 |
| 1,4-Dichlorobenzene | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 07/22/21 22:02 |
| 2,2-Dichloropropane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 2-Butanone (MEK) | 10.0 U | 10.0 | 3.10 | ug/L | 1 | | 07/22/21 22:02 |
| 2-Chlorotoluene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 2-Hexanone | 10.0 U | 10.0 | 3.10 | ug/L | 1 | | 07/22/21 22:02 |
| 4-Chlorotoluene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 4-Isopropyltoluene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| 4-Methyl-2-pentanone (MIBK) | 10.0 U | 10.0 | 3.10 | ug/L | 1 | | 07/22/21 22:02 |
| Benzene | 0.400 U | 0.400 | 0.120 | ug/L | 1 | | 07/22/21 22:02 |
| Bromobenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Bromochloromethane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Bromodichloromethane | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 07/22/21 22:02 |
| Bromoform | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Bromomethane | 5.00 U | 5.00 | 2.00 | ug/L | 1 | | 07/22/21 22:02 |
| Carbon disulfide | 10.0 U | 10.0 | 3.10 | ug/L | 1 | | 07/22/21 22:02 |
| Carbon tetrachloride | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Chlorobenzene | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 07/22/21 22:02 |
| Chloroethane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |

Print Date: 08/13/2021 2:31:59PM



Results of TH27W1

Client Sample ID: **TH27W1**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357036
 Lab Project ID: 1214357

Collection Date: 07/15/21 13:00
 Received Date: 07/16/21 15:44
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroform | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Chloromethane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| cis-1,2-Dichloroethene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| cis-1,3-Dichloropropene | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 07/22/21 22:02 |
| Dibromochloromethane | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 07/22/21 22:02 |
| Dibromomethane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Dichlorodifluoromethane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Ethylbenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Freon-113 | 10.0 U | 10.0 | 3.10 | ug/L | 1 | | 07/22/21 22:02 |
| Hexachlorobutadiene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Isopropylbenzene (Cumene) | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Methylene chloride | 10.0 U | 10.0 | 3.10 | ug/L | 1 | | 07/22/21 22:02 |
| Methyl-t-butyl ether | 10.0 U | 10.0 | 3.10 | ug/L | 1 | | 07/22/21 22:02 |
| Naphthalene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| n-Butylbenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| n-Propylbenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| o-Xylene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| P & M -Xylene | 2.00 U | 2.00 | 0.620 | ug/L | 1 | | 07/22/21 22:02 |
| sec-Butylbenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Styrene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| tert-Butylbenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Tetrachloroethene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Toluene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| trans-1,2-Dichloroethene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| trans-1,3-Dichloropropene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Trichloroethene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Trichlorofluoromethane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 22:02 |
| Vinyl acetate | 10.0 U | 10.0 | 3.10 | ug/L | 1 | | 07/22/21 22:02 |
| Vinyl chloride | 0.150 U | 0.150 | 0.0500 | ug/L | 1 | | 07/22/21 22:02 |
| Xylenes (total) | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 07/22/21 22:02 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 103 | 81-118 | | % | 1 | | 07/22/21 22:02 |
| 4-Bromofluorobenzene (surr) | 102 | 85-114 | | % | 1 | | 07/22/21 22:02 |
| Toluene-d8 (surr) | 98.6 | 89-112 | | % | 1 | | 07/22/21 22:02 |

Print Date: 08/13/2021 2:31:59PM



Results of TH27W1

Client Sample ID: **TH27W1**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357036
Lab Project ID: 1214357

Collection Date: 07/15/21 13:00
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20957
Analytical Method: SW8260D
Analyst: JMG
Analytical Date/Time: 07/22/21 22:02
Container ID: 1214357036-J

Prep Batch: VXX37480
Prep Method: SW5030B
Prep Date/Time: 07/22/21 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27W1

Client Sample ID: **TH27W1**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357036
Lab Project ID: 1214357

Collection Date: 07/15/21 13:00
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.00500 U | 0.00500 | 0.00125 | ug/L | 1 | | 07/21/21 01:18 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 98.3 | 85-114 | | % | 1 | | 07/21/21 01:18 |
| Toluene-d8 (surr) | 97.7 | 89-112 | | % | 1 | | 07/21/21 01:18 |

Batch Information

Analytical Batch: VMS20946
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/21/21 01:18
Container ID: 1214357036-M

Prep Batch: VXX37464
Prep Method: SW5030B
Prep Date/Time: 07/20/21 06:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27W2

Client Sample ID: **TH27W2**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357037
Lab Project ID: 1214357

Collection Date: 07/15/21 13:30
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Arsenic | 10.0 U | 10.0 | 3.10 | ug/L | 5 | | 07/28/21 05:59 |
| Barium | 11.5 | 3.00 | 0.940 | ug/L | 5 | | 07/28/21 05:59 |
| Cadmium | 2.00 U | 2.00 | 0.620 | ug/L | 5 | | 07/28/21 05:59 |
| Chromium | 10.0 U | 10.0 | 3.10 | ug/L | 5 | | 07/28/21 05:59 |
| Lead | 4.12 | 1.00 | 0.310 | ug/L | 5 | | 07/28/21 05:59 |
| Mercury | 0.500 U | 0.500 | 0.180 | ug/L | 5 | | 07/28/21 05:59 |
| Selenium | 20.0 U | 20.0 | 6.20 | ug/L | 5 | | 07/28/21 05:59 |
| Silver | 2.00 U | 2.00 | 0.620 | ug/L | 5 | | 07/28/21 05:59 |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 07/28/21 05:59
Container ID: 1214357037-P

Prep Batch: MX34434
Prep Method: SW3010A
Prep Date/Time: 07/21/21 13:04
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27W2

Client Sample ID: **TH27W2**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357037
Lab Project ID: 1214357

Collection Date: 07/15/21 13:30
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Polychlorinated Biphenyls

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|---------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Aroclor-1016 | 0.103 U | 0.103 | 0.0318 | ug/L | 1 | | 07/27/21 23:45 |
| Aroclor-1221 | 1.03 U | 1.03 | 0.318 | ug/L | 1 | | 07/27/21 23:45 |
| Aroclor-1232 | 0.103 U | 0.103 | 0.0318 | ug/L | 1 | | 07/27/21 23:45 |
| Aroclor-1242 | 0.103 U | 0.103 | 0.0318 | ug/L | 1 | | 07/27/21 23:45 |
| Aroclor-1248 | 0.103 U | 0.103 | 0.0318 | ug/L | 1 | | 07/27/21 23:45 |
| Aroclor-1254 | 0.103 U | 0.103 | 0.0318 | ug/L | 1 | | 07/27/21 23:45 |
| Aroclor-1260 | 0.103 U | 0.103 | 0.0318 | ug/L | 1 | | 07/27/21 23:45 |
| Surrogates | | | | | | | |
| Decachlorobiphenyl (surr) | 87.5 | 40-135 | | % | 1 | | 07/27/21 23:45 |

Batch Information

Analytical Batch: XGC10946
Analytical Method: SW8082A
Analyst: CDM
Analytical Date/Time: 07/27/21 23:45
Container ID: 1214357037-E

Prep Batch: XXX45246
Prep Method: SW3520C
Prep Date/Time: 07/27/21 10:30
Prep Initial Wt./Vol.: 975 mL
Prep Extract Vol: 1 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27W2

Client Sample ID: TH27W2
Client Project ID: Danger Bay
Lab Sample ID: 1214357037
Lab Project ID: 1214357

Collection Date: 07/15/21 13:30
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Polynuclear Aromatics GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various polynuclear aromatic hydrocarbons (PAHs) and their surrogate values.

Batch Information

Analytical Batch: XMS12776
Analytical Method: 8270D SIM LV (PAH)
Analyst: LAW
Analytical Date/Time: 07/26/21 02:39
Container ID: 1214357037-C

Prep Batch: XXX45211
Prep Method: SW3535A
Prep Date/Time: 07/22/21 01:00
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL



Results of TH27W2

Client Sample ID: TH27W2
Client Project ID: Danger Bay
Lab Sample ID: 1214357037
Lab Project ID: 1214357

Collection Date: 07/15/21 13:30
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Semivolatile Organic Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Diesel Range Organics and Surrogates (5a Androstane).

Batch Information

Analytical Batch: XFC16023
Analytical Method: AK102
Analyst: A.A
Analytical Date/Time: 07/29/21 18:02
Container ID: 1214357037-A

Prep Batch: XXX45258
Prep Method: SW3520C
Prep Date/Time: 07/28/21 15:15
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Residual Range Organics and Surrogates (n-Triacontane-d62).

Batch Information

Analytical Batch: XFC16023
Analytical Method: AK103
Analyst: A.A
Analytical Date/Time: 07/29/21 18:02
Container ID: 1214357037-A

Prep Batch: XXX45258
Prep Method: SW3520C
Prep Date/Time: 07/28/21 15:15
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27W2

Client Sample ID: **TH27W2**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357037
Lab Project ID: 1214357

Collection Date: 07/15/21 13:30
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 0.100 U | 0.100 | 0.0310 | mg/L | 1 | | 07/21/21 07:04 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 65 | 50-150 | | % | 1 | | 07/21/21 07:04 |

Batch Information

Analytical Batch: VFC15722
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/21/21 07:04
Container ID: 1214357037-G

Prep Batch: VXX37460
Prep Method: SW5030B
Prep Date/Time: 07/20/21 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27W2

Client Sample ID: TH27W2
Client Project ID: Danger Bay
Lab Sample ID: 1214357037
Lab Project ID: 1214357

Collection Date: 07/15/21 13:30
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of TH27W2

Client Sample ID: TH27W2
Client Project ID: Danger Bay
Lab Sample ID: 1214357037
Lab Project ID: 1214357

Collection Date: 07/15/21 13:30
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical parameters like Chloroform, Benzene, and Toluene with their respective results and limits.



Results of TH27W2

Client Sample ID: **TH27W2**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357037
Lab Project ID: 1214357

Collection Date: 07/15/21 13:30
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20957
Analytical Method: SW8260D
Analyst: JMG
Analytical Date/Time: 07/22/21 22:16
Container ID: 1214357037-J

Prep Batch: VXX37480
Prep Method: SW5030B
Prep Date/Time: 07/22/21 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of TH27W2

Client Sample ID: **TH27W2**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357037
Lab Project ID: 1214357

Collection Date: 07/15/21 13:30
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.00500 U | 0.00500 | 0.00125 | ug/L | 1 | | 07/21/21 01:33 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 96.5 | 85-114 | | % | 1 | | 07/21/21 01:33 |
| Toluene-d8 (surr) | 98 | 89-112 | | % | 1 | | 07/21/21 01:33 |

Batch Information

Analytical Batch: VMS20946
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/21/21 01:33
Container ID: 1214357037-M

Prep Batch: VXX37464
Prep Method: SW5030B
Prep Date/Time: 07/20/21 06:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank

Client Sample ID: **Trip Blank**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357038
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 0.100 U | 0.100 | 0.0310 | mg/L | 1 | | 07/21/21 04:40 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 63.1 | 50-150 | | % | 1 | | 07/21/21 04:40 |

Batch Information

Analytical Batch: VFC15722
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/21/21 04:40
Container ID: 1214357038-A

Prep Batch: VXX37460
Prep Method: SW5030B
Prep Date/Time: 07/20/21 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank

Client Sample ID: Trip Blank
Client Project ID: Danger Bay
Lab Sample ID: 1214357038
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank

Client Sample ID: **Trip Blank**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357038
 Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
 Received Date: 07/16/21 15:44
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroform | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| Chloromethane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| cis-1,2-Dichloroethene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| cis-1,3-Dichloropropene | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 07/22/21 17:49 |
| Dibromochloromethane | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 07/22/21 17:49 |
| Dibromomethane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| Dichlorodifluoromethane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| Ethylbenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| Freon-113 | 10.0 U | 10.0 | 3.10 | ug/L | 1 | | 07/22/21 17:49 |
| Hexachlorobutadiene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| Isopropylbenzene (Cumene) | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| Methylene chloride | 10.0 U | 10.0 | 3.10 | ug/L | 1 | | 07/22/21 17:49 |
| Methyl-t-butyl ether | 10.0 U | 10.0 | 3.10 | ug/L | 1 | | 07/22/21 17:49 |
| Naphthalene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| n-Butylbenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| n-Propylbenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| o-Xylene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| P & M -Xylene | 2.00 U | 2.00 | 0.620 | ug/L | 1 | | 07/22/21 17:49 |
| sec-Butylbenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| Styrene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| tert-Butylbenzene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| Tetrachloroethene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| Toluene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| trans-1,2-Dichloroethene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| trans-1,3-Dichloropropene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| Trichloroethene | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| Trichlorofluoromethane | 1.00 U | 1.00 | 0.310 | ug/L | 1 | | 07/22/21 17:49 |
| Vinyl acetate | 10.0 U | 10.0 | 3.10 | ug/L | 1 | | 07/22/21 17:49 |
| Vinyl chloride | 0.150 U | 0.150 | 0.0500 | ug/L | 1 | | 07/22/21 17:49 |
| Xylenes (total) | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 07/22/21 17:49 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 104 | 81-118 | | % | 1 | | 07/22/21 17:49 |
| 4-Bromofluorobenzene (surr) | 102 | 85-114 | | % | 1 | | 07/22/21 17:49 |
| Toluene-d8 (surr) | 100 | 89-112 | | % | 1 | | 07/22/21 17:49 |

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank

Client Sample ID: **Trip Blank**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357038
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20957
Analytical Method: SW8260D
Analyst: JMG
Analytical Date/Time: 07/22/21 17:49
Container ID: 1214357038-D

Prep Batch: VXX37480
Prep Method: SW5030B
Prep Date/Time: 07/22/21 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank

Client Sample ID: **Trip Blank**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357038
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.00500 U | 0.00500 | 0.00125 | ug/L | 1 | | 07/20/21 22:16 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 97.8 | 85-114 | | % | 1 | | 07/20/21 22:16 |
| Toluene-d8 (surr) | 98.7 | 89-112 | | % | 1 | | 07/20/21 22:16 |

Batch Information

Analytical Batch: VMS20946
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/20/21 22:16
Container ID: 1214357038-B

Prep Batch: VXX37464
Prep Method: SW5030B
Prep Date/Time: 07/20/21 06:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 1

Client Sample ID: **Trip Blank (s) 1**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357039
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.51 U | 2.51 | 0.754 | mg/kg | 1 | | 07/28/21 17:30 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 103 | 50-150 | | % | 1 | | 07/28/21 17:30 |

Batch Information

Analytical Batch: VFC15738
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 17:30
Container ID: 1214357039-A

Prep Batch: VXX37524
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:00
Prep Initial Wt./Vol.: 49.728 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 1

Client Sample ID: Trip Blank (s) 1
Client Project ID: Danger Bay
Lab Sample ID: 1214357039
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 20.1 U | 20.1 | 6.23 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,1,1-Trichloroethane | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,1,2,2-Tetrachloroethane | 2.01 U | 2.01 | 0.623 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,1,2-Trichloroethane | 0.804 U | 0.804 | 0.251 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,1-Dichloroethane | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,1-Dichloroethene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,1-Dichloropropene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,2,3-Trichlorobenzene | 50.3 U | 50.3 | 15.1 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,2,3-Trichloropropane | 2.01 U | 2.01 | 0.623 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,2,4-Trichlorobenzene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,2,4-Trimethylbenzene | 50.3 U | 50.3 | 15.1 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,2-Dibromo-3-chloropropane | 101 U | 101 | 31.2 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,2-Dibromoethane | 1.01 U | 1.01 | 0.402 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,2-Dichlorobenzene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,2-Dichloroethane | 2.01 U | 2.01 | 0.704 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,2-Dichloropropane | 10.1 U | 10.1 | 3.12 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,3,5-Trimethylbenzene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,3-Dichlorobenzene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,3-Dichloropropane | 10.1 U | 10.1 | 3.12 | ug/kg | 1 | | 07/23/21 14:15 |
| 1,4-Dichlorobenzene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| 2,2-Dichloropropane | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| 2-Butanone (MEK) | 251 U | 251 | 78.4 | ug/kg | 1 | | 07/23/21 14:15 |
| 2-Chlorotoluene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| 2-Hexanone | 101 U | 101 | 31.2 | ug/kg | 1 | | 07/23/21 14:15 |
| 4-Chlorotoluene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| 4-Isopropyltoluene | 101 U | 101 | 25.1 | ug/kg | 1 | | 07/23/21 14:15 |
| 4-Methyl-2-pentanone (MIBK) | 251 U | 251 | 78.4 | ug/kg | 1 | | 07/23/21 14:15 |
| Acetone | 251 U | 251 | 78.4 | ug/kg | 1 | | 07/23/21 14:15 |
| Benzene | 12.6 U | 12.6 | 3.92 | ug/kg | 1 | | 07/23/21 14:15 |
| Bromobenzene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| Bromochloromethane | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| Bromodichloromethane | 2.01 U | 2.01 | 0.623 | ug/kg | 1 | | 07/23/21 14:15 |
| Bromoform | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| Bromomethane | 20.1 U | 20.1 | 6.23 | ug/kg | 1 | | 07/23/21 14:15 |
| Carbon disulfide | 101 U | 101 | 31.2 | ug/kg | 1 | | 07/23/21 14:15 |
| Carbon tetrachloride | 12.6 U | 12.6 | 3.92 | ug/kg | 1 | | 07/23/21 14:15 |
| Chlorobenzene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 1

Client Sample ID: **Trip Blank (s) 1**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357039
 Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
 Received Date: 07/16/21 15:44
 Matrix: Soil/Solid (dry weight)
 Solids (%):
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 201 U | 201 | 62.3 | ug/kg | 1 | | 07/23/21 14:15 |
| Chloroform | 4.02 U | 4.02 | 1.01 | ug/kg | 1 | | 07/23/21 14:15 |
| Chloromethane | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| cis-1,2-Dichloroethene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| cis-1,3-Dichloropropene | 12.6 U | 12.6 | 3.92 | ug/kg | 1 | | 07/23/21 14:15 |
| Dibromochloromethane | 5.03 U | 5.03 | 1.51 | ug/kg | 1 | | 07/23/21 14:15 |
| Dibromomethane | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| Dichlorodifluoromethane | 50.3 U | 50.3 | 15.1 | ug/kg | 1 | | 07/23/21 14:15 |
| Ethylbenzene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| Freon-113 | 101 U | 101 | 31.2 | ug/kg | 1 | | 07/23/21 14:15 |
| Hexachlorobutadiene | 20.1 U | 20.1 | 6.23 | ug/kg | 1 | | 07/23/21 14:15 |
| Isopropylbenzene (Cumene) | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| Methylene chloride | 101 U | 101 | 31.2 | ug/kg | 1 | | 07/23/21 14:15 |
| Methyl-t-butyl ether | 101 U | 101 | 31.2 | ug/kg | 1 | | 07/23/21 14:15 |
| Naphthalene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| n-Butylbenzene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| n-Propylbenzene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| o-Xylene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| P & M -Xylene | 50.3 U | 50.3 | 15.1 | ug/kg | 1 | | 07/23/21 14:15 |
| sec-Butylbenzene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| Styrene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| tert-Butylbenzene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| Tetrachloroethene | 12.6 U | 12.6 | 3.92 | ug/kg | 1 | | 07/23/21 14:15 |
| Toluene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| trans-1,2-Dichloroethene | 25.1 U | 25.1 | 7.84 | ug/kg | 1 | | 07/23/21 14:15 |
| trans-1,3-Dichloropropene | 12.6 U | 12.6 | 3.92 | ug/kg | 1 | | 07/23/21 14:15 |
| Trichloroethene | 5.03 U | 5.03 | 1.51 | ug/kg | 1 | | 07/23/21 14:15 |
| Trichlorofluoromethane | 50.3 U | 50.3 | 15.1 | ug/kg | 1 | | 07/23/21 14:15 |
| Vinyl acetate | 101 U | 101 | 31.2 | ug/kg | 1 | | 07/23/21 14:15 |
| Vinyl chloride | 0.804 U | 0.804 | 0.251 | ug/kg | 1 | | 07/23/21 14:15 |
| Xylenes (total) | 75.4 U | 75.4 | 22.9 | ug/kg | 1 | | 07/23/21 14:15 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 110 | 71-136 | | % | 1 | | 07/23/21 14:15 |
| 4-Bromofluorobenzene (surr) | 101 | 55-151 | | % | 1 | | 07/23/21 14:15 |
| Toluene-d8 (surr) | 99.4 | 85-116 | | % | 1 | | 07/23/21 14:15 |

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 1

Client Sample ID: **Trip Blank (s) 1**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357039
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20962
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/23/21 14:15
Container ID: 1214357039-A

Prep Batch: VXX37485
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:00
Prep Initial Wt./Vol.: 49.728 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 1

Client Sample ID: **Trip Blank (s) 1**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357039
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.126 U | 0.126 | 0.0312 | ug/kg | 1 | | 07/26/21 20:58 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 105 | 55-151 | | % | 1 | | 07/26/21 20:58 |
| Toluene-d8 (surr) | 101 | 85-116 | | % | 1 | | 07/26/21 20:58 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/26/21 20:58
Container ID: 1214357039-A

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:00
Prep Initial Wt./Vol.: 49.728 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 2

Client Sample ID: **Trip Blank (s) 2**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357040
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.52 U | 2.52 | 0.756 | mg/kg | 1 | | 07/28/21 17:48 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 96.9 | 50-150 | | % | 1 | | 07/28/21 17:48 |

Batch Information

Analytical Batch: VFC15738
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 17:48
Container ID: 1214357040-A

Prep Batch: VXX37524
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:00
Prep Initial Wt./Vol.: 49.575 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 2

Client Sample ID: Trip Blank (s) 2
Client Project ID: Danger Bay
Lab Sample ID: 1214357040
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 20.2 U | 20.2 | 6.25 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,1,1-Trichloroethane | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,1,2,2-Tetrachloroethane | 2.02 U | 2.02 | 0.625 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,1,2-Trichloroethane | 0.807 U | 0.807 | 0.252 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,1-Dichloroethane | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,1-Dichloroethene | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,1-Dichloropropene | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,2,3-Trichlorobenzene | 50.4 U | 50.4 | 15.1 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,2,3-Trichloropropane | 2.02 U | 2.02 | 0.625 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,2,4-Trichlorobenzene | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,2,4-Trimethylbenzene | 50.4 U | 50.4 | 15.1 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,2-Dibromo-3-chloropropane | 101 U | 101 | 31.3 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,2-Dibromoethane | 1.01 U | 1.01 | 0.403 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,2-Dichlorobenzene | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,2-Dichloroethane | 2.02 U | 2.02 | 0.706 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,2-Dichloropropane | 10.1 U | 10.1 | 3.13 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,3,5-Trimethylbenzene | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,3-Dichlorobenzene | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,3-Dichloropropane | 10.1 U | 10.1 | 3.13 | ug/kg | 1 | | 07/23/21 14:31 |
| 1,4-Dichlorobenzene | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| 2,2-Dichloropropane | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| 2-Butanone (MEK) | 252 U | 252 | 78.7 | ug/kg | 1 | | 07/23/21 14:31 |
| 2-Chlorotoluene | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| 2-Hexanone | 101 U | 101 | 31.3 | ug/kg | 1 | | 07/23/21 14:31 |
| 4-Chlorotoluene | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| 4-Isopropyltoluene | 101 U | 101 | 25.2 | ug/kg | 1 | | 07/23/21 14:31 |
| 4-Methyl-2-pentanone (MIBK) | 252 U | 252 | 78.7 | ug/kg | 1 | | 07/23/21 14:31 |
| Acetone | 252 U | 252 | 78.7 | ug/kg | 1 | | 07/23/21 14:31 |
| Benzene | 12.6 U | 12.6 | 3.93 | ug/kg | 1 | | 07/23/21 14:31 |
| Bromobenzene | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| Bromochloromethane | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| Bromodichloromethane | 2.02 U | 2.02 | 0.625 | ug/kg | 1 | | 07/23/21 14:31 |
| Bromoform | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |
| Bromomethane | 20.2 U | 20.2 | 6.25 | ug/kg | 1 | | 07/23/21 14:31 |
| Carbon disulfide | 101 U | 101 | 31.3 | ug/kg | 1 | | 07/23/21 14:31 |
| Carbon tetrachloride | 12.6 U | 12.6 | 3.93 | ug/kg | 1 | | 07/23/21 14:31 |
| Chlorobenzene | 25.2 U | 25.2 | 7.87 | ug/kg | 1 | | 07/23/21 14:31 |

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 2

Client Sample ID: Trip Blank (s) 2
Client Project ID: Danger Bay
Lab Sample ID: 1214357040
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 2

Client Sample ID: **Trip Blank (s) 2**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357040
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20962
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/23/21 14:31
Container ID: 1214357040-A

Prep Batch: VXX37485
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:00
Prep Initial Wt./Vol.: 49.575 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 2

Client Sample ID: **Trip Blank (s) 2**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357040
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.126 U | 0.126 | 0.0313 | ug/kg | 1 | | 07/26/21 21:13 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 105 | 55-151 | | % | 1 | | 07/26/21 21:13 |
| Toluene-d8 (surr) | 100 | 85-116 | | % | 1 | | 07/26/21 21:13 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/26/21 21:13
Container ID: 1214357040-A

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:00
Prep Initial Wt./Vol.: 49.575 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 3

Client Sample ID: **Trip Blank (s) 3**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357041
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.50 U | 2.50 | 0.751 | mg/kg | 1 | | 07/28/21 18:06 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 102 | 50-150 | | % | 1 | | 07/28/21 18:06 |

Batch Information

Analytical Batch: VFC15738
Analytical Method: AK101
Analyst: MDT
Analytical Date/Time: 07/28/21 18:06
Container ID: 1214357041-A

Prep Batch: VXX37524
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:00
Prep Initial Wt./Vol.: 49.947 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 3

Client Sample ID: Trip Blank (s) 3
Client Project ID: Danger Bay
Lab Sample ID: 1214357041
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 3

Client Sample ID: **Trip Blank (s) 3**
 Client Project ID: **Danger Bay**
 Lab Sample ID: 1214357041
 Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
 Received Date: 07/16/21 15:44
 Matrix: Soil/Solid (dry weight)
 Solids (%):
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 200 U | 200 | 62.1 | ug/kg | 1 | | 07/23/21 14:48 |
| Chloroform | 4.00 U | 4.00 | 1.00 | ug/kg | 1 | | 07/23/21 14:48 |
| Chloromethane | 25.0 U | 25.0 | 7.81 | ug/kg | 1 | | 07/23/21 14:48 |
| cis-1,2-Dichloroethene | 25.0 U | 25.0 | 7.81 | ug/kg | 1 | | 07/23/21 14:48 |
| cis-1,3-Dichloropropene | 12.5 U | 12.5 | 3.90 | ug/kg | 1 | | 07/23/21 14:48 |
| Dibromochloromethane | 5.01 U | 5.01 | 1.50 | ug/kg | 1 | | 07/23/21 14:48 |
| Dibromomethane | 25.0 U | 25.0 | 7.81 | ug/kg | 1 | | 07/23/21 14:48 |
| Dichlorodifluoromethane | 50.1 U | 50.1 | 15.0 | ug/kg | 1 | | 07/23/21 14:48 |
| Ethylbenzene | 25.0 U | 25.0 | 7.81 | ug/kg | 1 | | 07/23/21 14:48 |
| Freon-113 | 100 U | 100 | 31.0 | ug/kg | 1 | | 07/23/21 14:48 |
| Hexachlorobutadiene | 20.0 U | 20.0 | 6.21 | ug/kg | 1 | | 07/23/21 14:48 |
| Isopropylbenzene (Cumene) | 25.0 U | 25.0 | 7.81 | ug/kg | 1 | | 07/23/21 14:48 |
| Methylene chloride | 100 U | 100 | 31.0 | ug/kg | 1 | | 07/23/21 14:48 |
| Methyl-t-butyl ether | 100 U | 100 | 31.0 | ug/kg | 1 | | 07/23/21 14:48 |
| Naphthalene | 25.0 U | 25.0 | 7.81 | ug/kg | 1 | | 07/23/21 14:48 |
| n-Butylbenzene | 25.0 U | 25.0 | 7.81 | ug/kg | 1 | | 07/23/21 14:48 |
| n-Propylbenzene | 25.0 U | 25.0 | 7.81 | ug/kg | 1 | | 07/23/21 14:48 |
| o-Xylene | 25.0 U | 25.0 | 7.81 | ug/kg | 1 | | 07/23/21 14:48 |
| P & M -Xylene | 50.1 U | 50.1 | 15.0 | ug/kg | 1 | | 07/23/21 14:48 |
| sec-Butylbenzene | 25.0 U | 25.0 | 7.81 | ug/kg | 1 | | 07/23/21 14:48 |
| Styrene | 25.0 U | 25.0 | 7.81 | ug/kg | 1 | | 07/23/21 14:48 |
| tert-Butylbenzene | 25.0 U | 25.0 | 7.81 | ug/kg | 1 | | 07/23/21 14:48 |
| Tetrachloroethene | 12.5 U | 12.5 | 3.90 | ug/kg | 1 | | 07/23/21 14:48 |
| Toluene | 25.0 U | 25.0 | 7.81 | ug/kg | 1 | | 07/23/21 14:48 |
| trans-1,2-Dichloroethene | 25.0 U | 25.0 | 7.81 | ug/kg | 1 | | 07/23/21 14:48 |
| trans-1,3-Dichloropropene | 12.5 U | 12.5 | 3.90 | ug/kg | 1 | | 07/23/21 14:48 |
| Trichloroethene | 5.01 U | 5.01 | 1.50 | ug/kg | 1 | | 07/23/21 14:48 |
| Trichlorofluoromethane | 50.1 U | 50.1 | 15.0 | ug/kg | 1 | | 07/23/21 14:48 |
| Vinyl acetate | 100 U | 100 | 31.0 | ug/kg | 1 | | 07/23/21 14:48 |
| Vinyl chloride | 0.801 U | 0.801 | 0.250 | ug/kg | 1 | | 07/23/21 14:48 |
| Xylenes (total) | 75.1 U | 75.1 | 22.8 | ug/kg | 1 | | 07/23/21 14:48 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 109 | 71-136 | | % | 1 | | 07/23/21 14:48 |
| 4-Bromofluorobenzene (surr) | 103 | 55-151 | | % | 1 | | 07/23/21 14:48 |
| Toluene-d8 (surr) | 98.5 | 85-116 | | % | 1 | | 07/23/21 14:48 |

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 3

Client Sample ID: **Trip Blank (s) 3**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357041
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS20962
Analytical Method: SW8260D
Analyst: S.S
Analytical Date/Time: 07/23/21 14:48
Container ID: 1214357041-A

Prep Batch: VXX37485
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:00
Prep Initial Wt./Vol.: 49.947 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:31:59PM



Results of Trip Blank (s) 3

Client Sample ID: **Trip Blank (s) 3**
Client Project ID: **Danger Bay**
Lab Sample ID: 1214357041
Lab Project ID: 1214357

Collection Date: 07/13/21 10:00
Received Date: 07/16/21 15:44
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.125 U | 0.125 | 0.0310 | ug/kg | 1 | | 07/26/21 21:29 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 106 | 55-151 | | % | 1 | | 07/26/21 21:29 |
| Toluene-d8 (surr) | 101 | 85-116 | | % | 1 | | 07/26/21 21:29 |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Analyst: JMG
Analytical Date/Time: 07/26/21 21:29
Container ID: 1214357041-A

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 07/13/21 10:00
Prep Initial Wt./Vol.: 49.947 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:31:59PM



Method Blank

Blank ID: MB for HBN 1822768 [MXX/34434]
Blank Lab ID: 1624706

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1214357036, 1214357037

Results by SW6020B

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
| Arsenic | 5.00U | 10.0 | 3.10 | ug/L |
| Barium | 1.50U | 3.00 | 0.940 | ug/L |
| Cadmium | 1.00U | 2.00 | 0.620 | ug/L |
| Chromium | 5.00U | 10.0 | 3.10 | ug/L |
| Lead | 0.500U | 1.00 | 0.310 | ug/L |
| Mercury | 0.250U | 0.500 | 0.180 | ug/L |
| Selenium | 10.0U | 20.0 | 6.20 | ug/L |
| Silver | 1.00U | 2.00 | 0.620 | ug/L |

Batch Information

Analytical Batch: MMS11219
Analytical Method: SW6020B
Instrument: Perkin Elmer Nexlon P5
Analyst: DMM
Analytical Date/Time: 7/30/2021 5:53:19AM

Prep Batch: MXX34434
Prep Method: SW3010A
Prep Date/Time: 7/21/2021 1:04:40PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:32:12PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [MXX34434]
Blank Spike Lab ID: 1624707
Date Analyzed: 07/30/2021 05:57

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214357036, 1214357037

Results by SW6020B

| Parameter | Blank Spike (ug/L) | | | CL |
|-----------|--------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| Arsenic | 1000 | 1070 | 107 | (84-116) |
| Barium | 1000 | 996 | 100 | (86-114) |
| Cadmium | 100 | 107 | 107 | (87-115) |
| Chromium | 400 | 476 | 119 * | (85-116) |
| Lead | 1000 | 1150 | 115 | (88-115) |
| Mercury | 10 | 10.7 | 107 | (70-124) |
| Selenium | 1000 | 1100 | 110 | (80-120) |
| Silver | 100 | 103 | 103 | (85-116) |

Batch Information

Analytical Batch: **MMS11219**
Analytical Method: **SW6020B**
Instrument: **Perkin Elmer Nexlon P5**
Analyst: **DMM**

Prep Batch: **MXX34434**
Prep Method: **SW3010A**
Prep Date/Time: **07/21/2021 13:04**
Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/13/2021 2:32:14PM



Matrix Spike Summary

Original Sample ID: 1624725
MS Sample ID: 1624726 MS
MSD Sample ID: 1624727 MSD

Analysis Date: 07/30/2021 6:01
Analysis Date: 07/30/2021 6:06
Analysis Date: 07/30/2021 6:10
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214357036, 1214357037

Results by SW6020B

| Parameter | Sample | Matrix Spike (ug/L) | | | Spike Duplicate (ug/L) | | | CL | RPD (%) | RPD CL |
|-----------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Arsenic | 5.00U | 1000 | 981 | 98 | 1000 | 991 | 99 | 84-116 | 1.03 | (< 20) |
| Barium | 81.3 | 1000 | 1010 | 93 | 1000 | 1080 | 100 | 86-114 | 5.92 | (< 20) |
| Cadmium | 1.00U | 100 | 99.7 | 100 | 100 | 104 | 104 | 87-115 | 4.17 | (< 20) |
| Chromium | 5.00U | 400 | 415 | 104 | 400 | 424 | 106 | 85-116 | 2.16 | (< 20) |
| Lead | 0.500U | 1000 | 1120 | 112 | 1000 | 1120 | 112 | 88-115 | 0.17 | (< 20) |
| Mercury | 0.250U | 10.0 | 10.4 | 104 | 10.0 | 10.1 | 101 | 70-124 | 2.83 | (< 20) |
| Selenium | 10.0U | 1000 | 1010 | 101 | 1000 | 1020 | 102 | 80-120 | 0.43 | (< 20) |
| Silver | 1.00U | 100 | 103 | 103 | 100 | 108 | 108 | 85-116 | 4.65 | (< 20) |

Batch Information

Analytical Batch: MMS11219
Analytical Method: SW6020B
Instrument: Perkin Elmer NexIon P5
Analyst: DMM
Analytical Date/Time: 7/30/2021 6:06:01AM

Prep Batch: MX34434
Prep Method: 3010 H2O Digest for Metals ICP-MS
Prep Date/Time: 7/21/2021 1:04:40PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 08/13/2021 2:32:16PM



Method Blank

Blank ID: MB for HBN 1822838 [MXX/34441]
Blank Lab ID: 1625030

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357001, 1214357002, 1214357003, 1214357004, 1214357009, 1214357010, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW6020B

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
| Arsenic | 0.500U | 1.00 | 0.310 | mg/kg |
| Barium | 0.150U | 0.300 | 0.0940 | mg/kg |
| Cadmium | 0.100U | 0.200 | 0.0620 | mg/kg |
| Chromium | 0.500U | 1.00 | 0.310 | mg/kg |
| Lead | 0.100U | 0.200 | 0.0620 | mg/kg |
| Mercury | 0.150U | 0.300 | 0.100 | mg/kg |
| Selenium | 1.00U | 2.00 | 0.620 | mg/kg |
| Silver | 0.250U | 0.500 | 0.150 | mg/kg |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Instrument: Perkin Elmer Nexlon P5
Analyst: DMM
Analytical Date/Time: 7/27/2021 10:52:11PM

Prep Batch: MXX34441
Prep Method: SW3050B
Prep Date/Time: 7/23/2021 9:18:51AM
Prep Initial Wt./Vol.: 1 g
Prep Extract Vol: 50 mL

Print Date: 08/13/2021 2:32:17PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [MXX34441]

Blank Spike Lab ID: 1625031

Date Analyzed: 07/27/2021 22:56

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357009, 1214357010, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW6020B

| Parameter | Blank Spike (mg/kg) | | | CL |
|-----------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| Arsenic | 50 | 51.1 | 102 | (82-118) |
| Barium | 50 | 44.8 | 90 | (86-116) |
| Cadmium | 5 | 4.94 | 99 | (84-116) |
| Chromium | 20 | 20.2 | 101 | (83-119) |
| Lead | 50 | 52.8 | 106 | (84-118) |
| Mercury | 0.5 | 0.509 | 102 | (74-126) |
| Selenium | 50 | 51.5 | 103 | (80-119) |
| Silver | 5 | 5.24 | 105 | (83-118) |

Batch Information

Analytical Batch: MMS11214

Analytical Method: SW6020B

Instrument: Perkin Elmer Nexlon P5

Analyst: DMM

Prep Batch: MXX34441

Prep Method: SW3050B

Prep Date/Time: 07/23/2021 09:18

Spike Init Wt./Vol.: 50 mg/kg Extract Vol: 50 mL

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/13/2021 2:32:20PM



Matrix Spike Summary

Original Sample ID: 1214357033
MS Sample ID: 1625118 MS
MSD Sample ID: 1625119 MSD

Analysis Date: 07/27/2021 23:00
Analysis Date: 07/27/2021 23:04
Analysis Date: 07/27/2021 23:09
Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357009, 1214357010, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW6020B

| Parameter | Sample | Matrix Spike (mg/kg) | | | Spike Duplicate (mg/kg) | | | CL | RPD (%) | RPD CL |
|-----------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Arsenic | 12.7 | 55.1 | 65.5 | 96 | 53.9 | 65.4 | 98 | 82-118 | 0.11 | (< 20) |
| Barium | 30.7 | 55.1 | 95.9 | 119 * | 53.9 | 101 | 130 * | 86-116 | 5.10 | (< 20) |
| Cadmium | 0.290 | 5.51 | 5.85 | 101 | 5.39 | 5.83 | 103 | 84-116 | 0.33 | (< 20) |
| Chromium | 36.5 | 22.1 | 57.1 | 94 | 21.6 | 56.5 | 93 | 83-119 | 0.91 | (< 20) |
| Lead | 22.0 | 55.1 | 75.4 | 97 | 53.9 | 82.0 | 111 | 84-118 | 8.43 | (< 20) |
| Mercury | 0.318U | 0.551 | 0.784 | 142 * | 0.539 | 0.785 | 146 * | 74-126 | 0.18 | (< 20) |
| Selenium | 2.12U | 55.1 | 52.9 | 96 | 53.9 | 52.5 | 97 | 80-119 | 0.69 | (< 20) |
| Silver | 0.530U | 5.51 | 5.02 | 91 | 5.39 | 5.14 | 95 | 83-118 | 2.29 | (< 20) |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Instrument: Perkin Elmer Nexlon P5
Analyst: DMM
Analytical Date/Time: 7/27/2021 11:04:52PM

Prep Batch: MXX34441
Prep Method: Soils/Solids Digest for Metals by ICP-MS
Prep Date/Time: 7/23/2021 9:18:51AM
Prep Initial Wt./Vol.: 1.01g
Prep Extract Vol: 50.00mL

Print Date: 08/13/2021 2:32:21PM



Bench Spike Summary

Original Sample ID: 1214357033
MS Sample ID: 1625120 BND
MSD Sample ID:

Analysis Date: 07/27/2021 23:00
Analysis Date: 07/27/2021 23:13
Analysis Date:
Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357009, 1214357010, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW6020B

| Parameter | Sample | Matrix Spike (mg/kg) | | | Spike Duplicate (mg/kg) | | | CL | RPD (%) | RPD CL |
|-----------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Barium | 30.7 | 265 | 340 | 117 | | | | 75-125 | | |
| Mercury | 0.318U | 2.65 | 2.72 | 103 | | | | 75-125 | | |

Batch Information

Analytical Batch: MMS11214
Analytical Method: SW6020B
Instrument: Perkin Elmer Nexlon P5
Analyst: DMM
Analytical Date/Time: 7/27/2021 11:13:00PM

Prep Batch: MXX34441
Prep Method: Soils/Solids Digest for Metals by ICP-MS
Prep Date/Time: 7/23/2021 9:18:51AM
Prep Initial Wt./Vol.: 1.05g
Prep Extract Vol: 50.00mL

Print Date: 08/13/2021 2:32:21PM



Method Blank

Blank ID: MB for HBN 1822607 [SPT/11326]

Matrix: Soil/Solid (dry weight)

Blank Lab ID: 1624214

QC for Samples:

1214357005, 1214357006, 1214357007, 1214357008, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015, 1214357016, 1214357017, 1214357018, 1214357019, 1214357020, 1214357021

Results by SM21 2540G

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
| Total Solids | 100 | | | % |

Batch Information

Analytical Batch: SPT11326

Analytical Method: SM21 2540G

Instrument:

Analyst: TMM

Analytical Date/Time: 7/19/2021 5:34:00PM

Print Date: 08/13/2021 2:32:23PM



Duplicate Sample Summary

Original Sample ID: 1214316018

Duplicate Sample ID: 1624216

QC for Samples:

Analysis Date: 07/19/2021 17:34

Matrix: Soil/Solid (dry weight)

Results by SM21 2540G

| <u>NAME</u> | <u>Original</u> | <u>Duplicate</u> | <u>Units</u> | <u>RPD (%)</u> | <u>RPD CL</u> |
|--------------|-----------------|------------------|--------------|----------------|---------------|
| Total Solids | 70.6 | 68.7 | % | 2.80 | (< 15) |

Batch Information

Analytical Batch: SPT11326

Analytical Method: SM21 2540G

Instrument:

Analyst: TMM

Print Date: 08/13/2021 2:32:24PM



Duplicate Sample Summary

Original Sample ID: 1214346001

Duplicate Sample ID: 1624217

Analysis Date: 07/19/2021 17:34

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357005, 1214357006, 1214357007, 1214357008, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015, 1214357016, 1214357017, 1214357018, 1214357019, 1214357020, 1214357021

Results by SM21 2540G

| <u>NAME</u> | <u>Original</u> | <u>Duplicate</u> | <u>Units</u> | <u>RPD (%)</u> | <u>RPD CL</u> |
|--------------|-----------------|------------------|--------------|----------------|---------------|
| Total Solids | 96.7 | 96.7 | % | 0.01 | (< 15) |

Batch Information

Analytical Batch: SPT11326

Analytical Method: SM21 2540G

Instrument:

Analyst: TMM

Print Date: 08/13/2021 2:32:24PM



Duplicate Sample Summary

Original Sample ID: 1214359001

Duplicate Sample ID: 1624218

Analysis Date: 07/19/2021 17:34

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357005, 1214357006, 1214357007, 1214357008, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015, 1214357016, 1214357017, 1214357018, 1214357019, 1214357020, 1214357021

Results by SM21 2540G

| <u>NAME</u> | <u>Original</u> | <u>Duplicate</u> | <u>Units</u> | <u>RPD (%)</u> | <u>RPD CL</u> |
|--------------|-----------------|------------------|--------------|----------------|---------------|
| Total Solids | 97.3 | 97.8 | % | 0.58 | (< 15) |

Batch Information

Analytical Batch: SPT11326

Analytical Method: SM21 2540G

Instrument:

Analyst: TMM

Print Date: 08/13/2021 2:32:24PM



Method Blank

Blank ID: MB for HBN 1822654 [SPT/11327]

Matrix: Soil/Solid (dry weight)

Blank Lab ID: 1624418

QC for Samples:

1214357001, 1214357002, 1214357003, 1214357004, 1214357009, 1214357010, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SM21 2540G

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
| Total Solids | 100 | | | % |

Batch Information

Analytical Batch: SPT11327

Analytical Method: SM21 2540G

Instrument:

Analyst: TMM

Analytical Date/Time: 7/20/2021 4:50:00PM

Print Date: 08/13/2021 2:32:28PM



Duplicate Sample Summary

Original Sample ID: 1214357026

Duplicate Sample ID: 1624419

Analysis Date: 07/20/2021 16:50

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357001, 1214357002, 1214357003, 1214357004, 1214357009, 1214357010, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031,

Results by SM21 2540G

| <u>NAME</u> | <u>Original</u> | <u>Duplicate</u> | <u>Units</u> | <u>RPD (%)</u> | <u>RPD CL</u> |
|--------------|-----------------|------------------|--------------|----------------|---------------|
| Total Solids | 91.1 | 91.5 | % | 0.46 | (< 15) |

Batch Information

Analytical Batch: SPT11327

Analytical Method: SM21 2540G

Instrument:

Analyst: TMM

Print Date: 08/13/2021 2:32:29PM



Duplicate Sample Summary

Original Sample ID: 1214357034

Duplicate Sample ID: 1624420

QC for Samples:

1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Analysis Date: 07/20/2021 16:50

Matrix: Soil/Solid (dry weight)

Results by SM21 2540G

| <u>NAME</u> | <u>Original</u> | <u>Duplicate</u> | <u>Units</u> | <u>RPD (%)</u> | <u>RPD CL</u> |
|--------------|-----------------|------------------|--------------|----------------|---------------|
| Total Solids | 92.0 | 92.0 | % | 0.07 | (< 15) |

Batch Information

Analytical Batch: SPT11327

Analytical Method: SM21 2540G

Instrument:

Analyst: TMM

Print Date: 08/13/2021 2:32:29PM



Method Blank

Blank ID: MB for HBN 1822670 [VXX/37460]
Blank Lab ID: 1624539

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1214357036, 1214357037, 1214357038

Results by AK101

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| Gasoline Range Organics | 0.0500U | 0.100 | 0.0310 | mg/L |
| Surrogates | | | | |
| 4-Bromofluorobenzene (surr) | 64.3 | 50-150 | | % |

Batch Information

Analytical Batch: VFC15722
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: MDT
Analytical Date/Time: 7/21/2021 12:44:00AM

Prep Batch: VXX37460
Prep Method: SW5030B
Prep Date/Time: 7/20/2021 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:32:33PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37460]
Blank Spike Lab ID: 1624540
Date Analyzed: 07/21/2021 04:21

Spike Duplicate ID: LCSD for HBN 1214357 [VXX37460]
Spike Duplicate Lab ID: 1624541
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214357036, 1214357037, 1214357038

Results by AK101

| Parameter | Blank Spike (mg/L) | | | Spike Duplicate (mg/L) | | | CL | RPD (%) | RPD CL |
|-------------------------|--------------------|--------|---------|------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Gasoline Range Organics | 1.00 | 0.907 | 91 | 1.00 | 0.900 | 90 | (60-120) | 0.75 | (< 20) |

Surrogates

| | | | | | | | | | |
|-----------------------------|--------|--|----|--------|--|----|------------|------|--|
| 4-Bromofluorobenzene (surr) | 0.0500 | | 84 | 0.0500 | | 87 | (50-150) | 3.80 | |
|-----------------------------|--------|--|----|--------|--|----|------------|------|--|

Batch Information

Analytical Batch: **VFC15722**
Analytical Method: **AK101**
Instrument: **Agilent 7890 PID/FID**
Analyst: **MDT**

Prep Batch: **VXX37460**
Prep Method: **SW5030B**
Prep Date/Time: **07/20/2021 06:00**
Spike Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL

Print Date: 08/13/2021 2:32:35PM



Method Blank

Blank ID: MB for HBN 1822773 [VXX/37464]

Blank Lab ID: 1624752

QC for Samples:

1214357036, 1214357037, 1214357038

Matrix: Water (Surface, Eff., Ground)

Results by SW8260D-SIM

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| 1,2-Dibromoethane | 0.00250U | 0.00500 | 0.00125 | ug/L |
| Surrogates | | | | |
| 4-Bromofluorobenzene (surr) | 96.2 | 85-114 | | % |
| Toluene-d8 (surr) | 98.9 | 89-112 | | % |

Batch Information

Analytical Batch: VMS20946

Analytical Method: SW8260D-SIM

Instrument: VSA Agilent GC/MS 7890B/5977A

Analyst: JMG

Analytical Date/Time: 7/20/2021 3:44:00PM

Prep Batch: VXX37464

Prep Method: SW5030B

Prep Date/Time: 7/20/2021 6:00:00AM

Prep Initial Wt./Vol.: 25 mL

Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:32:37PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37464]
Blank Spike Lab ID: 1624753
Date Analyzed: 07/20/2021 15:59

Spike Duplicate ID: LCSD for HBN 1214357
[VXX37464]
Spike Duplicate Lab ID: 1624754
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214357036, 1214357037, 1214357038

Results by SW8260D-SIM

| Parameter | Blank Spike (ug/L) | | | Spike Duplicate (ug/L) | | | CL | RPD (%) | RPD CL |
|-----------------------------|--------------------|--------|---------|------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1,2-Dibromoethane | 0.2 | 0.196 | 98 | 0.2 | 0.200 | 100 | (77-121) | 2.20 | (< 20) |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (surr) | 30 | | 95 | 30 | | 99 | (85-114) | 3.50 | (< 20) |
| Toluene-d8 (surr) | 30 | | 98 | 30 | | 100 | (89-112) | 1.70 | (< 20) |

Batch Information

Analytical Batch: VMS20946
Analytical Method: SW8260D-SIM
Instrument: VSA Agilent GC/MS 7890B/5977A
Analyst: JMG

Prep Batch: VXX37464
Prep Method: SW5030B
Prep Date/Time: 07/20/2021 06:00
Spike Init Wt./Vol.: 0.2 ug/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 0.2 ug/L Extract Vol: 25 mL

Print Date: 08/13/2021 2:32:39PM



Method Blank

Blank ID: MB for HBN 1822834 [VXX/37471]

Matrix: Soil/Solid (dry weight)

Blank Lab ID: 1625012

QC for Samples:

1214357001, 1214357002, 1214357003, 1214357004, 1214357005, 1214357006, 1214357007, 1214357008, 1214357009, 1214357010, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| 1,1,1,2-Tetrachloroethane | 10.0U | 20.0 | 6.20 | ug/kg |
| 1,1,1-Trichloroethane | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,1,2,2-Tetrachloroethane | 1.00U | 2.00 | 0.620 | ug/kg |
| 1,1,2-Trichloroethane | 0.400U | 0.800 | 0.250 | ug/kg |
| 1,1-Dichloroethane | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,1-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,1-Dichloropropene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,2,3-Trichlorobenzene | 25.0U | 50.0 | 15.0 | ug/kg |
| 1,2,3-Trichloropropane | 1.00U | 2.00 | 0.620 | ug/kg |
| 1,2,4-Trichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,2,4-Trimethylbenzene | 25.0U | 50.0 | 15.0 | ug/kg |
| 1,2-Dibromo-3-chloropropane | 50.0U | 100 | 31.0 | ug/kg |
| 1,2-Dibromoethane | 0.500U | 1.00 | 0.400 | ug/kg |
| 1,2-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,2-Dichloroethane | 1.00U | 2.00 | 0.700 | ug/kg |
| 1,2-Dichloropropane | 5.00U | 10.0 | 3.10 | ug/kg |
| 1,3,5-Trimethylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,3-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,3-Dichloropropane | 5.00U | 10.0 | 3.10 | ug/kg |
| 1,4-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 2,2-Dichloropropane | 12.5U | 25.0 | 7.80 | ug/kg |
| 2-Butanone (MEK) | 125U | 250 | 78.0 | ug/kg |
| 2-Chlorotoluene | 12.5U | 25.0 | 7.80 | ug/kg |
| 2-Hexanone | 50.0U | 100 | 31.0 | ug/kg |
| 4-Chlorotoluene | 12.5U | 25.0 | 7.80 | ug/kg |
| 4-Isopropyltoluene | 50.0U | 100 | 25.0 | ug/kg |
| 4-Methyl-2-pentanone (MIBK) | 125U | 250 | 78.0 | ug/kg |
| Acetone | 125U | 250 | 78.0 | ug/kg |
| Benzene | 6.25U | 12.5 | 3.90 | ug/kg |
| Bromobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Bromochloromethane | 12.5U | 25.0 | 7.80 | ug/kg |
| Bromodichloromethane | 1.00U | 2.00 | 0.620 | ug/kg |
| Bromoform | 12.5U | 25.0 | 7.80 | ug/kg |
| Bromomethane | 10.0U | 20.0 | 6.20 | ug/kg |
| Carbon disulfide | 50.0U | 100 | 31.0 | ug/kg |
| Carbon tetrachloride | 6.25U | 12.5 | 3.90 | ug/kg |
| Chlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Chloroethane | 100U | 200 | 62.0 | ug/kg |

Print Date: 08/13/2021 2:32:42PM



Method Blank

Blank ID: MB for HBN 1822834 [VXX/37471]
Blank Lab ID: 1625012

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357001, 1214357002, 1214357003, 1214357004, 1214357005, 1214357006, 1214357007, 1214357008, 1214357009, 1214357010, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------------------|----------------|---------------|-----------|--------------|
| Chloroform | 2.00U | 4.00 | 1.00 | ug/kg |
| Chloromethane | 12.5U | 25.0 | 7.80 | ug/kg |
| cis-1,2-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/kg |
| cis-1,3-Dichloropropene | 6.25U | 12.5 | 3.90 | ug/kg |
| Dibromochloromethane | 2.50U | 5.00 | 1.50 | ug/kg |
| Dibromomethane | 12.5U | 25.0 | 7.80 | ug/kg |
| Dichlorodifluoromethane | 25.0U | 50.0 | 15.0 | ug/kg |
| Ethylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Freon-113 | 50.0U | 100 | 31.0 | ug/kg |
| Hexachlorobutadiene | 10.0U | 20.0 | 6.20 | ug/kg |
| Isopropylbenzene (Cumene) | 12.5U | 25.0 | 7.80 | ug/kg |
| Methylene chloride | 50.0U | 100 | 31.0 | ug/kg |
| Methyl-t-butyl ether | 50.0U | 100 | 31.0 | ug/kg |
| Naphthalene | 12.5U | 25.0 | 7.80 | ug/kg |
| n-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| n-Propylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| o-Xylene | 12.5U | 25.0 | 7.80 | ug/kg |
| P & M -Xylene | 25.0U | 50.0 | 15.0 | ug/kg |
| sec-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Styrene | 12.5U | 25.0 | 7.80 | ug/kg |
| tert-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Tetrachloroethene | 6.25U | 12.5 | 3.90 | ug/kg |
| Toluene | 12.5U | 25.0 | 7.80 | ug/kg |
| trans-1,2-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/kg |
| trans-1,3-Dichloropropene | 6.25U | 12.5 | 3.90 | ug/kg |
| Trichloroethene | 2.50U | 5.00 | 1.50 | ug/kg |
| Trichlorofluoromethane | 25.0U | 50.0 | 15.0 | ug/kg |
| Vinyl acetate | 50.0U | 100 | 31.0 | ug/kg |
| Vinyl chloride | 0.400U | 0.800 | 0.250 | ug/kg |
| Xylenes (total) | 37.5U | 75.0 | 22.8 | ug/kg |
| Surrogates | | | | |
| 1,2-Dichloroethane-D4 (surr) | 110 | 71-136 | | % |
| 4-Bromofluorobenzene (surr) | 98.2 | 55-151 | | % |
| Toluene-d8 (surr) | 98.7 | 85-116 | | % |

Print Date: 08/13/2021 2:32:42PM



Method Blank

Blank ID: MB for HBN 1822834 [VXX/37471]
Blank Lab ID: 1625012

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357001, 1214357002, 1214357003, 1214357004, 1214357005, 1214357006, 1214357007, 1214357008, 1214357009, 1214357010, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
|------------------|----------------|---------------|-----------|--------------|

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Instrument: VQA 7890/5975 GC/MS
Analyst: S.S
Analytical Date/Time: 7/22/2021 10:23:00AM

Prep Batch: VXX37471
Prep Method: SW5035A
Prep Date/Time: 7/22/2021 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:32:42PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37471]

Blank Spike Lab ID: 1625013

Date Analyzed: 07/22/2021 10:39

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357005, 1214357006, 1214357007, 1214357008, 1214357009, 1214357010, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015

Results by SW8260D

| Parameter | Blank Spike (ug/kg) | | | CL |
|-----------------------------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| 1,1,1,2-Tetrachloroethane | 750 | 796 | 106 | (78-125) |
| 1,1,1-Trichloroethane | 750 | 726 | 97 | (73-130) |
| 1,1,2,2-Tetrachloroethane | 750 | 847 | 113 | (70-124) |
| 1,1,2-Trichloroethane | 750 | 839 | 112 | (78-121) |
| 1,1-Dichloroethane | 750 | 705 | 94 | (76-125) |
| 1,1-Dichloroethene | 750 | 712 | 95 | (70-131) |
| 1,1-Dichloropropene | 750 | 756 | 101 | (76-125) |
| 1,2,3-Trichlorobenzene | 750 | 830 | 111 | (66-130) |
| 1,2,3-Trichloropropane | 750 | 768 | 102 | (73-125) |
| 1,2,4-Trichlorobenzene | 750 | 845 | 113 | (67-129) |
| 1,2,4-Trimethylbenzene | 750 | 840 | 112 | (75-123) |
| 1,2-Dibromo-3-chloropropane | 750 | 819 | 109 | (61-132) |
| 1,2-Dibromoethane | 750 | 842 | 112 | (78-122) |
| 1,2-Dichlorobenzene | 750 | 822 | 110 | (78-121) |
| 1,2-Dichloroethane | 750 | 682 | 91 | (73-128) |
| 1,2-Dichloropropane | 750 | 758 | 101 | (76-123) |
| 1,3,5-Trimethylbenzene | 750 | 831 | 111 | (73-124) |
| 1,3-Dichlorobenzene | 750 | 828 | 110 | (77-121) |
| 1,3-Dichloropropane | 750 | 817 | 109 | (77-121) |
| 1,4-Dichlorobenzene | 750 | 829 | 111 | (75-120) |
| 2,2-Dichloropropane | 750 | 738 | 98 | (67-133) |
| 2-Butanone (MEK) | 2250 | 2120 | 94 | (51-148) |
| 2-Chlorotoluene | 750 | 822 | 110 | (75-122) |
| 2-Hexanone | 2250 | 2420 | 107 | (53-145) |
| 4-Chlorotoluene | 750 | 833 | 111 | (72-124) |
| 4-Isopropyltoluene | 750 | 851 | 113 | (73-127) |
| 4-Methyl-2-pentanone (MIBK) | 2250 | 2260 | 100 | (65-135) |
| Acetone | 2250 | 2130 | 95 | (36-164) |
| Benzene | 750 | 753 | 100 | (77-121) |
| Bromobenzene | 750 | 844 | 113 | (78-121) |
| Bromochloromethane | 750 | 705 | 94 | (78-125) |
| Bromodichloromethane | 750 | 738 | 98 | (75-127) |
| Bromoform | 750 | 802 | 107 | (67-132) |
| Bromomethane | 750 | 700 | 93 | (53-143) |

Print Date: 08/13/2021 2:32:44PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37471]

Blank Spike Lab ID: 1625013

Date Analyzed: 07/22/2021 10:39

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357005, 1214357006, 1214357007, 1214357008, 1214357009, 1214357010, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015

Results by SW8260D

Blank Spike (ug/kg)

| Parameter | Spike | Result | Rec (%) | CL |
|---------------------------|-------|--------|---------|------------|
| Carbon disulfide | 1130 | 1040 | 92 | (63-132) |
| Carbon tetrachloride | 750 | 737 | 98 | (70-135) |
| Chlorobenzene | 750 | 755 | 101 | (79-120) |
| Chloroethane | 750 | 740 | 99 | (59-139) |
| Chloroform | 750 | 725 | 97 | (78-123) |
| Chloromethane | 750 | 684 | 91 | (50-136) |
| cis-1,2-Dichloroethene | 750 | 690 | 92 | (77-123) |
| cis-1,3-Dichloropropene | 750 | 803 | 107 | (74-126) |
| Dibromochloromethane | 750 | 839 | 112 | (74-126) |
| Dibromomethane | 750 | 721 | 96 | (78-125) |
| Dichlorodifluoromethane | 750 | 665 | 89 | (29-149) |
| Ethylbenzene | 750 | 739 | 99 | (76-122) |
| Freon-113 | 1130 | 1060 | 94 | (66-136) |
| Hexachlorobutadiene | 750 | 828 | 110 | (61-135) |
| Isopropylbenzene (Cumene) | 750 | 775 | 103 | (68-134) |
| Methylene chloride | 750 | 755 | 101 | (70-128) |
| Methyl-t-butyl ether | 1130 | 1060 | 95 | (73-125) |
| Naphthalene | 750 | 846 | 113 | (62-129) |
| n-Butylbenzene | 750 | 854 | 114 | (70-128) |
| n-Propylbenzene | 750 | 843 | 112 | (73-125) |
| o-Xylene | 750 | 757 | 101 | (77-123) |
| P & M -Xylene | 1500 | 1470 | 98 | (77-124) |
| sec-Butylbenzene | 750 | 828 | 110 | (73-126) |
| Styrene | 750 | 776 | 103 | (76-124) |
| tert-Butylbenzene | 750 | 839 | 112 | (73-125) |
| Tetrachloroethene | 750 | 800 | 107 | (73-128) |
| Toluene | 750 | 749 | 100 | (77-121) |
| trans-1,2-Dichloroethene | 750 | 724 | 97 | (74-125) |
| trans-1,3-Dichloropropene | 750 | 771 | 103 | (71-130) |
| Trichloroethene | 750 | 774 | 103 | (77-123) |
| Trichlorofluoromethane | 750 | 941 | 125 | (62-140) |
| Vinyl acetate | 750 | 772 | 103 | (50-151) |
| Vinyl chloride | 750 | 696 | 93 | (56-135) |
| Xylenes (total) | 2250 | 2230 | 99 | (78-124) |

Print Date: 08/13/2021 2:32:44PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37471]

Blank Spike Lab ID: 1625013

Date Analyzed: 07/22/2021 10:39

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357005, 1214357006, 1214357007, 1214357008, 1214357009, 1214357010, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015

Results by SW8260D

| Parameter | Blank Spike (ug/kg) | | | CL |
|------------------------------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| Surrogates | | | | |
| 1,2-Dichloroethane-D4 (surr) | 750 | 94 | | (71-136) |
| 4-Bromofluorobenzene (surr) | 750 | 99 | | (55-151) |
| Toluene-d8 (surr) | 750 | 99 | | (85-116) |

Batch Information

Analytical Batch: VMS20954

Analytical Method: SW8260D

Instrument: VQA 7890/5975 GC/MS

Analyst: S.S

Prep Batch: VXX37471

Prep Method: SW5035A

Prep Date/Time: 07/22/2021 06:00

Spike Init Wt./Vol.: 750 ug/kg Extract Vol: 25 mL

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/13/2021 2:32:44PM



Matrix Spike Summary

Original Sample ID: 1625014
 MS Sample ID: 1625015 MS
 MSD Sample ID: 1625016 MSD

Analysis Date: 07/22/2021 13:31
 Analysis Date: 07/22/2021 12:09
 Analysis Date: 07/22/2021 12:25
 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357005, 1214357006, 1214357007, 1214357008, 1214357009, 1214357010, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015

Results by SW8260D

| Parameter | Sample | Matrix Spike (ug/kg) | | | Spike Duplicate (ug/kg) | | | CL | RPD (%) | RPD CL |
|-----------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1,1,1,2-Tetrachloroethane | 7.75U | 579 | 604 | 104 | 579 | 599 | 103 | 78-125 | 0.96 | (< 20) |
| 1,1,1-Trichloroethane | 9.65U | 579 | 538 | 93 | 579 | 529 | 91 | 73-130 | 1.60 | (< 20) |
| 1,1,2,2-Tetrachloroethane | 0.775U | 579 | 642 | 111 | 579 | 657 | 113 | 70-124 | 2.30 | (< 20) |
| 1,1,2-Trichloroethane | 0.310U | 579 | 655 | 113 | 579 | 652 | 113 | 78-121 | 0.38 | (< 20) |
| 1,1-Dichloroethane | 9.65U | 579 | 530 | 92 | 579 | 526 | 91 | 76-125 | 0.84 | (< 20) |
| 1,1-Dichloroethene | 9.65U | 579 | 508 | 88 | 579 | 497 | 86 | 70-131 | 2.20 | (< 20) |
| 1,1-Dichloropropene | 9.65U | 579 | 541 | 93 | 579 | 526 | 91 | 76-125 | 2.80 | (< 20) |
| 1,2,3-Trichlorobenzene | 19.4U | 579 | 665 | 115 | 579 | 710 | 123 | 66-130 | 6.60 | (< 20) |
| 1,2,3-Trichloropropane | 0.775U | 579 | 584 | 101 | 579 | 621 | 107 | 73-125 | 6.20 | (< 20) |
| 1,2,4-Trichlorobenzene | 9.65U | 579 | 645 | 111 | 579 | 681 | 117 | 67-129 | 5.30 | (< 20) |
| 1,2,4-Trimethylbenzene | 19.4U | 579 | 602 | 104 | 579 | 612 | 106 | 75-123 | 1.60 | (< 20) |
| 1,2-Dibromo-3-chloropropane | 38.7U | 579 | 622 | 107 | 579 | 641 | 111 | 61-132 | 3.10 | (< 20) |
| 1,2-Dibromoethane | 0.387U | 579 | 654 | 113 | 579 | 651 | 112 | 78-122 | 0.47 | (< 20) |
| 1,2-Dichlorobenzene | 9.65U | 579 | 612 | 106 | 579 | 621 | 107 | 78-121 | 1.50 | (< 20) |
| 1,2-Dichloroethane | 0.775U | 579 | 531 | 92 | 579 | 528 | 91 | 73-128 | 0.51 | (< 20) |
| 1,2-Dichloropropane | 3.87U | 579 | 584 | 101 | 579 | 579 | 100 | 76-123 | 0.86 | (< 20) |
| 1,3,5-Trimethylbenzene | 9.65U | 579 | 590 | 102 | 579 | 612 | 106 | 73-124 | 3.70 | (< 20) |
| 1,3-Dichlorobenzene | 9.65U | 579 | 603 | 104 | 579 | 616 | 106 | 77-121 | 2.10 | (< 20) |
| 1,3-Dichloropropane | 3.87U | 579 | 633 | 109 | 579 | 627 | 108 | 77-121 | 0.86 | (< 20) |
| 1,4-Dichlorobenzene | 9.65U | 579 | 609 | 105 | 579 | 618 | 107 | 75-120 | 1.60 | (< 20) |
| 2,2-Dichloropropane | 9.65U | 579 | 539 | 93 | 579 | 529 | 91 | 67-133 | 1.90 | (< 20) |
| 2-Butanone (MEK) | 96.5U | 1740 | 1630 | 94 | 1740 | 1610 | 93 | 51-148 | 0.82 | (< 20) |
| 2-Chlorotoluene | 9.65U | 579 | 595 | 103 | 579 | 602 | 104 | 75-122 | 1.20 | (< 20) |
| 2-Hexanone | 38.7U | 1740 | 1900 | 109 | 1740 | 1880 | 108 | 53-145 | 0.78 | (< 20) |
| 4-Chlorotoluene | 9.65U | 579 | 607 | 105 | 579 | 610 | 105 | 72-124 | 0.51 | (< 20) |
| 4-Isopropyltoluene | 38.7U | 579 | 593 | 102 | 579 | 603 | 104 | 73-127 | 1.70 | (< 20) |
| 4-Methyl-2-pentanone (MIBK) | 96.5U | 1740 | 1770 | 102 | 1740 | 1760 | 101 | 65-135 | 0.67 | (< 20) |
| Acetone | 96.5U | 1740 | 1620 | 93 | 1740 | 1610 | 93 | 36-164 | 0.79 | (< 20) |
| Benzene | 4.84U | 579 | 560 | 97 | 579 | 552 | 95 | 77-121 | 1.50 | (< 20) |
| Bromobenzene | 9.65U | 579 | 624 | 108 | 579 | 630 | 109 | 78-121 | 1.10 | (< 20) |
| Bromochloromethane | 9.65U | 579 | 541 | 93 | 579 | 541 | 93 | 78-125 | 0.11 | (< 20) |
| Bromodichloromethane | 0.775U | 579 | 582 | 100 | 579 | 577 | 100 | 75-127 | 0.90 | (< 20) |
| Bromoform | 9.65U | 579 | 640 | 110 | 579 | 635 | 110 | 67-132 | 0.76 | (< 20) |
| Bromomethane | 7.75U | 579 | 599 | 103 | 579 | 597 | 103 | 53-143 | 0.32 | (< 20) |
| Carbon disulfide | 38.7U | 869 | 750 | 86 | 869 | 749 | 86 | 63-132 | 0.18 | (< 20) |
| Carbon tetrachloride | 4.84U | 579 | 537 | 93 | 579 | 520 | 90 | 70-135 | 3.30 | (< 20) |
| Chlorobenzene | 9.65U | 579 | 576 | 99 | 579 | 572 | 99 | 79-120 | 0.67 | (< 20) |

Print Date: 08/13/2021 2:32:46PM



Matrix Spike Summary

Original Sample ID: 1625014
 MS Sample ID: 1625015 MS
 MSD Sample ID: 1625016 MSD

Analysis Date: 07/22/2021 13:31
 Analysis Date: 07/22/2021 12:09
 Analysis Date: 07/22/2021 12:25
 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357005, 1214357006, 1214357007, 1214357008, 1214357009, 1214357010, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015

Results by SW8260D

| Parameter | Sample | Matrix Spike (ug/kg) | | | Spike Duplicate (ug/kg) | | | CL | RPD (%) | RPD CL |
|------------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Chloroethane | 77.5U | 579 | 630 | 109 | 579 | 601 | 104 | 59-139 | 4.60 | (< 20) |
| Chloroform | 1.54U | 579 | 558 | 96 | 579 | 553 | 95 | 78-123 | 0.87 | (< 20) |
| Chloromethane | 9.65U | 579 | 559 | 96 | 579 | 555 | 96 | 50-136 | 0.73 | (< 20) |
| cis-1,2-Dichloroethene | 9.65U | 579 | 531 | 92 | 579 | 523 | 90 | 77-123 | 1.40 | (< 20) |
| cis-1,3-Dichloropropene | 4.84U | 579 | 618 | 107 | 579 | 613 | 106 | 74-126 | 0.75 | (< 20) |
| Dibromochloromethane | 1.94U | 579 | 671 | 116 | 579 | 668 | 115 | 74-126 | 0.46 | (< 20) |
| Dibromomethane | 9.65U | 579 | 558 | 96 | 579 | 556 | 96 | 78-125 | 0.38 | (< 20) |
| Dichlorodifluoromethane | 19.4U | 579 | 560 | 97 | 579 | 539 | 93 | 29-149 | 3.80 | (< 20) |
| Ethylbenzene | 9.65U | 579 | 551 | 95 | 579 | 544 | 94 | 76-122 | 1.30 | (< 20) |
| Freon-113 | 38.7U | 869 | 753 | 87 | 869 | 725 | 83 | 66-136 | 3.80 | (< 20) |
| Hexachlorobutadiene | 7.75U | 579 | 618 | 107 | 579 | 665 | 115 | 61-135 | 7.40 | (< 20) |
| Isopropylbenzene (Cumene) | 9.65U | 579 | 562 | 97 | 579 | 559 | 96 | 68-134 | 0.66 | (< 20) |
| Methylene chloride | 38.7U | 579 | 547 | 94 | 579 | 556 | 96 | 70-128 | 1.60 | (< 20) |
| Methyl-t-butyl ether | 38.7U | 869 | 830 | 96 | 869 | 815 | 94 | 73-125 | 1.90 | (< 20) |
| Naphthalene | 9.65U | 579 | 657 | 113 | 579 | 689 | 119 | 62-129 | 4.70 | (< 20) |
| n-Butylbenzene | 9.65U | 579 | 592 | 102 | 579 | 605 | 104 | 70-128 | 2.10 | (< 20) |
| n-Propylbenzene | 9.65U | 579 | 597 | 103 | 579 | 597 | 103 | 73-125 | 0.10 | (< 20) |
| o-Xylene | 9.65U | 579 | 573 | 99 | 579 | 568 | 98 | 77-123 | 0.92 | (< 20) |
| P & M -Xylene | 19.4U | 1160 | 1100 | 95 | 1160 | 1080 | 93 | 77-124 | 2.00 | (< 20) |
| sec-Butylbenzene | 9.65U | 579 | 575 | 99 | 579 | 581 | 100 | 73-126 | 1.10 | (< 20) |
| Styrene | 9.65U | 579 | 588 | 101 | 579 | 587 | 101 | 76-124 | 0.16 | (< 20) |
| tert-Butylbenzene | 9.65U | 579 | 592 | 102 | 579 | 593 | 102 | 73-125 | 0.03 | (< 20) |
| Tetrachloroethene | 4.84U | 579 | 576 | 99 | 579 | 571 | 99 | 73-128 | 0.78 | (< 20) |
| Toluene | 9.65U | 579 | 565 | 98 | 579 | 554 | 96 | 77-121 | 2.00 | (< 20) |
| trans-1,2-Dichloroethene | 9.65U | 579 | 533 | 92 | 579 | 531 | 92 | 74-125 | 0.40 | (< 20) |
| trans-1,3-Dichloropropene | 4.84U | 579 | 609 | 105 | 579 | 606 | 105 | 71-130 | 0.51 | (< 20) |
| Trichloroethene | 1.94U | 579 | 582 | 100 | 579 | 570 | 98 | 77-123 | 2.00 | (< 20) |
| Trichlorofluoromethane | 19.4U | 579 | 987 | 170 * | 579 | 876 | 151 * | 62-140 | 11.90 | (< 20) |
| Vinyl acetate | 38.7U | 579 | 612 | 106 | 579 | 604 | 104 | 50-151 | 1.30 | (< 20) |
| Vinyl chloride | 0.310U | 579 | 573 | 99 | 579 | 558 | 96 | 56-135 | 2.60 | (< 20) |
| Xylenes (total) | 29.0U | 1740 | 1680 | 97 | 1740 | 1650 | 95 | 78-124 | 1.60 | (< 20) |
| Surrogates | | | | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | | 579 | 551 | 95 | 579 | 548 | 95 | 71-136 | 0.49 | |
| 4-Bromofluorobenzene (surr) | | 671 | 519 | 77 | 671 | 518 | 77 | 55-151 | 0.30 | |
| Toluene-d8 (surr) | | 579 | 578 | 100 | 579 | 575 | 99 | 85-116 | 0.57 | |

Print Date: 08/13/2021 2:32:46PM



Matrix Spike Summary

Original Sample ID: 1625014
MS Sample ID: 1625015 MS
MSD Sample ID: 1625016 MSD

Analysis Date:
Analysis Date: 07/22/2021 12:09
Analysis Date: 07/22/2021 12:25
Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357005, 1214357006, 1214357007, 1214357008, 1214357009, 1214357010, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015

Results by SW8260D

| Parameter | Sample | Matrix Spike (%) | | | Spike Duplicate (%) | | | CL | RPD (%) | RPD CL |
|-----------|--------|------------------|--------|---------|---------------------|--------|---------|----|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |

Batch Information

Analytical Batch: VMS20954
Analytical Method: SW8260D
Instrument: VQA 7890/5975 GC/MS
Analyst: S.S
Analytical Date/Time: 7/22/2021 12:09:00PM

Prep Batch: VXX37471
Prep Method: Vol. Extraction SW8260 Field Extracted L
Prep Date/Time: 7/22/2021 6:00:00AM
Prep Initial Wt./Vol.: 93.19g
Prep Extract Vol: 36.05mL

Print Date: 08/13/2021 2:32:46PM



Method Blank

Blank ID: MB for HBN 1822880 [VXX/37480]

Blank Lab ID: 1625250

QC for Samples:

1214357036, 1214357037, 1214357038

Matrix: Water (Surface, Eff., Ground)

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| 1,1,1,2-Tetrachloroethane | 0.250U | 0.500 | 0.150 | ug/L |
| 1,1,1-Trichloroethane | 0.500U | 1.00 | 0.310 | ug/L |
| 1,1,2,2-Tetrachloroethane | 0.250U | 0.500 | 0.150 | ug/L |
| 1,1,2-Trichloroethane | 0.200U | 0.400 | 0.120 | ug/L |
| 1,1-Dichloroethane | 0.500U | 1.00 | 0.310 | ug/L |
| 1,1-Dichloroethene | 0.500U | 1.00 | 0.310 | ug/L |
| 1,1-Dichloropropene | 0.500U | 1.00 | 0.310 | ug/L |
| 1,2,3-Trichlorobenzene | 0.500U | 1.00 | 0.310 | ug/L |
| 1,2,3-Trichloropropane | 0.500U | 1.00 | 0.310 | ug/L |
| 1,2,4-Trichlorobenzene | 0.500U | 1.00 | 0.310 | ug/L |
| 1,2,4-Trimethylbenzene | 0.500U | 1.00 | 0.310 | ug/L |
| 1,2-Dibromo-3-chloropropane | 5.00U | 10.0 | 3.10 | ug/L |
| 1,2-Dibromoethane | 0.0375U | 0.0750 | 0.0180 | ug/L |
| 1,2-Dichlorobenzene | 0.500U | 1.00 | 0.310 | ug/L |
| 1,2-Dichloroethane | 0.250U | 0.500 | 0.150 | ug/L |
| 1,2-Dichloropropane | 0.500U | 1.00 | 0.310 | ug/L |
| 1,3,5-Trimethylbenzene | 0.500U | 1.00 | 0.310 | ug/L |
| 1,3-Dichlorobenzene | 0.500U | 1.00 | 0.310 | ug/L |
| 1,3-Dichloropropane | 0.250U | 0.500 | 0.150 | ug/L |
| 1,4-Dichlorobenzene | 0.250U | 0.500 | 0.150 | ug/L |
| 2,2-Dichloropropane | 0.500U | 1.00 | 0.310 | ug/L |
| 2-Butanone (MEK) | 5.00U | 10.0 | 3.10 | ug/L |
| 2-Chlorotoluene | 0.500U | 1.00 | 0.310 | ug/L |
| 2-Hexanone | 5.00U | 10.0 | 3.10 | ug/L |
| 4-Chlorotoluene | 0.500U | 1.00 | 0.310 | ug/L |
| 4-Isopropyltoluene | 0.500U | 1.00 | 0.310 | ug/L |
| 4-Methyl-2-pentanone (MIBK) | 5.00U | 10.0 | 3.10 | ug/L |
| Benzene | 0.200U | 0.400 | 0.120 | ug/L |
| Bromobenzene | 0.500U | 1.00 | 0.310 | ug/L |
| Bromochloromethane | 0.500U | 1.00 | 0.310 | ug/L |
| Bromodichloromethane | 0.250U | 0.500 | 0.150 | ug/L |
| Bromoform | 0.500U | 1.00 | 0.310 | ug/L |
| Bromomethane | 2.50U | 5.00 | 2.00 | ug/L |
| Carbon disulfide | 5.00U | 10.0 | 3.10 | ug/L |
| Carbon tetrachloride | 0.500U | 1.00 | 0.310 | ug/L |
| Chlorobenzene | 0.250U | 0.500 | 0.150 | ug/L |
| Chloroethane | 0.500U | 1.00 | 0.310 | ug/L |
| Chloroform | 0.500U | 1.00 | 0.310 | ug/L |

Print Date: 08/13/2021 2:32:47PM



Method Blank

Blank ID: MB for HBN 1822880 [VXX/37480]

Blank Lab ID: 1625250

QC for Samples:

1214357036, 1214357037, 1214357038

Matrix: Water (Surface, Eff., Ground)

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------------------|----------------|---------------|-----------|--------------|
| Chloromethane | 0.500U | 1.00 | 0.310 | ug/L |
| cis-1,2-Dichloroethene | 0.500U | 1.00 | 0.310 | ug/L |
| cis-1,3-Dichloropropene | 0.250U | 0.500 | 0.150 | ug/L |
| Dibromochloromethane | 0.250U | 0.500 | 0.150 | ug/L |
| Dibromomethane | 0.500U | 1.00 | 0.310 | ug/L |
| Dichlorodifluoromethane | 0.500U | 1.00 | 0.310 | ug/L |
| Ethylbenzene | 0.500U | 1.00 | 0.310 | ug/L |
| Freon-113 | 5.00U | 10.0 | 3.10 | ug/L |
| Hexachlorobutadiene | 0.500U | 1.00 | 0.310 | ug/L |
| Isopropylbenzene (Cumene) | 0.500U | 1.00 | 0.310 | ug/L |
| Methylene chloride | 5.00U | 10.0 | 3.10 | ug/L |
| Methyl-t-butyl ether | 5.00U | 10.0 | 3.10 | ug/L |
| Naphthalene | 0.500U | 1.00 | 0.310 | ug/L |
| n-Butylbenzene | 0.500U | 1.00 | 0.310 | ug/L |
| n-Propylbenzene | 0.500U | 1.00 | 0.310 | ug/L |
| o-Xylene | 0.500U | 1.00 | 0.310 | ug/L |
| P & M -Xylene | 1.00U | 2.00 | 0.620 | ug/L |
| sec-Butylbenzene | 0.500U | 1.00 | 0.310 | ug/L |
| Styrene | 0.500U | 1.00 | 0.310 | ug/L |
| tert-Butylbenzene | 0.500U | 1.00 | 0.310 | ug/L |
| Tetrachloroethene | 0.500U | 1.00 | 0.310 | ug/L |
| Toluene | 0.500U | 1.00 | 0.310 | ug/L |
| trans-1,2-Dichloroethene | 0.500U | 1.00 | 0.310 | ug/L |
| trans-1,3-Dichloropropene | 0.500U | 1.00 | 0.310 | ug/L |
| Trichloroethene | 0.500U | 1.00 | 0.310 | ug/L |
| Trichlorofluoromethane | 0.500U | 1.00 | 0.310 | ug/L |
| Vinyl acetate | 5.00U | 10.0 | 3.10 | ug/L |
| Vinyl chloride | 0.0750U | 0.150 | 0.0500 | ug/L |
| Xylenes (total) | 1.50U | 3.00 | 1.00 | ug/L |
| Surrogates | | | | |
| 1,2-Dichloroethane-D4 (surr) | 102 | 81-118 | | % |
| 4-Bromofluorobenzene (surr) | 102 | 85-114 | | % |
| Toluene-d8 (surr) | 101 | 89-112 | | % |

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Method Blank

Blank ID: MB for HBN 1822880 [VXX/37480]
Blank Lab ID: 1625250

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1214357036, 1214357037, 1214357038

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
|------------------|----------------|---------------|-----------|--------------|

Batch Information

Analytical Batch: VMS20957
Analytical Method: SW8260D
Instrument: Agilent 7890-75MS
Analyst: JMG
Analytical Date/Time: 7/22/2021 2:09:00PM

Prep Batch: VXX37480
Prep Method: SW5030B
Prep Date/Time: 7/22/2021 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:32:47PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37480]
 Blank Spike Lab ID: 1625251
 Date Analyzed: 07/22/2021 14:23

Spike Duplicate ID: LCSD for HBN 1214357 [VXX37480]
 Spike Duplicate Lab ID: 1625252
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214357036, 1214357037, 1214357038

Results by SW8260D

| Parameter | Blank Spike (ug/L) | | | Spike Duplicate (ug/L) | | | CL | RPD (%) | RPD CL |
|-----------------------------|--------------------|--------|---------|------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1,1,1,2-Tetrachloroethane | 30 | 29.4 | 98 | 30 | 29.7 | 99 | (78-124) | 0.94 | (< 20) |
| 1,1,1-Trichloroethane | 30 | 29.5 | 98 | 30 | 29.4 | 98 | (74-131) | 0.20 | (< 20) |
| 1,1,2,2-Tetrachloroethane | 30 | 30.4 | 101 | 30 | 30.6 | 102 | (71-121) | 0.63 | (< 20) |
| 1,1,2-Trichloroethane | 30 | 30.2 | 101 | 30 | 30.1 | 100 | (80-119) | 0.23 | (< 20) |
| 1,1-Dichloroethane | 30 | 28.9 | 96 | 30 | 28.9 | 96 | (77-125) | 0.08 | (< 20) |
| 1,1-Dichloroethene | 30 | 30.1 | 100 | 30 | 29.9 | 100 | (71-131) | 0.80 | (< 20) |
| 1,1-Dichloropropene | 30 | 30.1 | 100 | 30 | 30.2 | 101 | (79-125) | 0.12 | (< 20) |
| 1,2,3-Trichlorobenzene | 30 | 27.7 | 92 | 30 | 29.3 | 98 | (69-129) | 5.40 | (< 20) |
| 1,2,3-Trichloropropane | 30 | 30.4 | 101 | 30 | 30.3 | 101 | (73-122) | 0.40 | (< 20) |
| 1,2,4-Trichlorobenzene | 30 | 28.7 | 96 | 30 | 29.7 | 99 | (69-130) | 3.40 | (< 20) |
| 1,2,4-Trimethylbenzene | 30 | 27.8 | 93 | 30 | 28.7 | 96 | (79-124) | 3.20 | (< 20) |
| 1,2-Dibromo-3-chloropropane | 30 | 29.6 | 99 | 30 | 29.8 | 99 | (62-128) | 0.65 | (< 20) |
| 1,2-Dibromoethane | 30 | 29.3 | 98 | 30 | 29.6 | 99 | (77-121) | 1.10 | (< 20) |
| 1,2-Dichlorobenzene | 30 | 29.3 | 98 | 30 | 30.0 | 100 | (80-119) | 2.20 | (< 20) |
| 1,2-Dichloroethane | 30 | 27.7 | 92 | 30 | 27.9 | 93 | (73-128) | 0.73 | (< 20) |
| 1,2-Dichloropropane | 30 | 29.1 | 97 | 30 | 29.3 | 98 | (78-122) | 0.89 | (< 20) |
| 1,3,5-Trimethylbenzene | 30 | 29.6 | 99 | 30 | 30.2 | 101 | (75-124) | 1.70 | (< 20) |
| 1,3-Dichlorobenzene | 30 | 29.8 | 99 | 30 | 30.1 | 100 | (80-119) | 1.30 | (< 20) |
| 1,3-Dichloropropane | 30 | 29.7 | 99 | 30 | 29.9 | 100 | (80-119) | 0.80 | (< 20) |
| 1,4-Dichlorobenzene | 30 | 29.7 | 99 | 30 | 30.0 | 100 | (79-118) | 1.20 | (< 20) |
| 2,2-Dichloropropane | 30 | 28.6 | 95 | 30 | 28.5 | 95 | (60-139) | 0.23 | (< 20) |
| 2-Butanone (MEK) | 90 | 88.0 | 98 | 90 | 89.0 | 99 | (56-143) | 1.10 | (< 20) |
| 2-Chlorotoluene | 30 | 30.4 | 101 | 30 | 30.4 | 101 | (79-122) | 0.18 | (< 20) |
| 2-Hexanone | 90 | 85.6 | 95 | 90 | 86.4 | 96 | (57-139) | 0.91 | (< 20) |
| 4-Chlorotoluene | 30 | 30.0 | 100 | 30 | 30.4 | 101 | (78-122) | 1.30 | (< 20) |
| 4-Isopropyltoluene | 30 | 30.1 | 100 | 30 | 30.8 | 103 | (77-127) | 2.40 | (< 20) |
| 4-Methyl-2-pentanone (MIBK) | 90 | 83.4 | 93 | 90 | 84.7 | 94 | (67-130) | 1.60 | (< 20) |
| Benzene | 30 | 29.4 | 98 | 30 | 29.0 | 97 | (79-120) | 1.30 | (< 20) |
| Bromobenzene | 30 | 29.9 | 100 | 30 | 30.3 | 101 | (80-120) | 1.20 | (< 20) |
| Bromochloromethane | 30 | 28.5 | 95 | 30 | 28.5 | 95 | (78-123) | 0.02 | (< 20) |
| Bromodichloromethane | 30 | 29.0 | 97 | 30 | 29.1 | 97 | (79-125) | 0.20 | (< 20) |
| Bromoform | 30 | 30.0 | 100 | 30 | 29.6 | 99 | (66-130) | 1.20 | (< 20) |
| Bromomethane | 30 | 28.9 | 96 | 30 | 30.8 | 103 | (53-141) | 6.50 | (< 20) |
| Carbon disulfide | 45 | 45.0 | 100 | 45 | 44.5 | 99 | (64-133) | 1.10 | (< 20) |

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37480]
 Blank Spike Lab ID: 1625251
 Date Analyzed: 07/22/2021 14:23

Spike Duplicate ID: LCSD for HBN 1214357 [VXX37480]
 Spike Duplicate Lab ID: 1625252
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214357036, 1214357037, 1214357038

Results by SW8260D

| Parameter | Blank Spike (ug/L) | | | Spike Duplicate (ug/L) | | | CL | RPD (%) | RPD CL |
|---------------------------|--------------------|--------|---------|------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Carbon tetrachloride | 30 | 29.9 | 100 | 30 | 30.0 | 100 | (72-136) | 0.35 | (< 20) |
| Chlorobenzene | 30 | 29.0 | 97 | 30 | 29.2 | 97 | (82-118) | 0.67 | (< 20) |
| Chloroethane | 30 | 36.0 | 120 | 30 | 31.9 | 106 | (60-138) | 12.10 | (< 20) |
| Chloroform | 30 | 28.3 | 94 | 30 | 28.4 | 95 | (79-124) | 0.28 | (< 20) |
| Chloromethane | 30 | 28.2 | 94 | 30 | 27.9 | 93 | (50-139) | 0.77 | (< 20) |
| cis-1,2-Dichloroethene | 30 | 28.6 | 95 | 30 | 28.7 | 96 | (78-123) | 0.38 | (< 20) |
| cis-1,3-Dichloropropene | 30 | 28.8 | 96 | 30 | 28.9 | 96 | (75-124) | 0.43 | (< 20) |
| Dibromochloromethane | 30 | 29.5 | 98 | 30 | 29.7 | 99 | (74-126) | 0.57 | (< 20) |
| Dibromomethane | 30 | 28.8 | 96 | 30 | 28.7 | 96 | (79-123) | 0.16 | (< 20) |
| Dichlorodifluoromethane | 30 | 31.0 | 103 | 30 | 30.3 | 101 | (32-152) | 2.00 | (< 20) |
| Ethylbenzene | 30 | 29.2 | 97 | 30 | 29.4 | 98 | (79-121) | 0.91 | (< 20) |
| Freon-113 | 45 | 46.4 | 103 | 45 | 45.9 | 102 | (70-136) | 1.10 | (< 20) |
| Hexachlorobutadiene | 30 | 30.2 | 101 | 30 | 30.8 | 103 | (66-134) | 2.00 | (< 20) |
| Isopropylbenzene (Cumene) | 30 | 29.6 | 99 | 30 | 30.4 | 101 | (72-131) | 2.70 | (< 20) |
| Methylene chloride | 30 | 29.0 | 97 | 30 | 29.1 | 97 | (74-124) | 0.44 | (< 20) |
| Methyl-t-butyl ether | 45 | 43.1 | 96 | 45 | 43.3 | 96 | (71-124) | 0.35 | (< 20) |
| Naphthalene | 30 | 26.0 | 87 | 30 | 27.6 | 92 | (61-128) | 6.00 | (< 20) |
| n-Butylbenzene | 30 | 31.0 | 103 | 30 | 31.6 | 105 | (75-128) | 2.00 | (< 20) |
| n-Propylbenzene | 30 | 31.0 | 103 | 30 | 31.3 | 104 | (76-126) | 1.10 | (< 20) |
| o-Xylene | 30 | 28.8 | 96 | 30 | 29.3 | 98 | (78-122) | 1.50 | (< 20) |
| P & M -Xylene | 60 | 57.3 | 96 | 60 | 58.4 | 97 | (80-121) | 1.90 | (< 20) |
| sec-Butylbenzene | 30 | 31.2 | 104 | 30 | 31.8 | 106 | (77-126) | 2.00 | (< 20) |
| Styrene | 30 | 27.9 | 93 | 30 | 28.6 | 95 | (78-123) | 2.40 | (< 20) |
| tert-Butylbenzene | 30 | 30.4 | 101 | 30 | 31.0 | 103 | (78-124) | 1.70 | (< 20) |
| Tetrachloroethene | 30 | 29.9 | 100 | 30 | 30.2 | 101 | (74-129) | 0.98 | (< 20) |
| Toluene | 30 | 28.6 | 95 | 30 | 28.9 | 96 | (80-121) | 1.10 | (< 20) |
| trans-1,2-Dichloroethene | 30 | 29.1 | 97 | 30 | 29.2 | 97 | (75-124) | 0.33 | (< 20) |
| trans-1,3-Dichloropropene | 30 | 29.7 | 99 | 30 | 30.1 | 100 | (73-127) | 1.40 | (< 20) |
| Trichloroethene | 30 | 29.5 | 98 | 30 | 29.5 | 98 | (79-123) | 0.09 | (< 20) |
| Trichlorofluoromethane | 30 | 31.1 | 104 | 30 | 30.2 | 101 | (65-141) | 3.20 | (< 20) |
| Vinyl acetate | 30 | 29.0 | 97 | 30 | 29.2 | 97 | (54-146) | 0.64 | (< 20) |
| Vinyl chloride | 30 | 29.5 | 98 | 30 | 29.0 | 97 | (58-137) | 1.60 | (< 20) |
| Xylenes (total) | 90 | 86.1 | 96 | 90 | 87.7 | 97 | (79-121) | 1.80 | (< 20) |

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37480]
Blank Spike Lab ID: 1625251
Date Analyzed: 07/22/2021 14:23

Spike Duplicate ID: LCSD for HBN 1214357 [VXX37480]
Spike Duplicate Lab ID: 1625252
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214357036, 1214357037, 1214357038

Results by SW8260D

| Parameter | Blank Spike (%) | | | Spike Duplicate (%) | | | CL | RPD (%) | RPD CL |
|------------------------------|-----------------|--------|---------|---------------------|--------|---------|------------|---------|--------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 30 | | 101 | 30 | | 100 | (81-118) | 0.81 | |
| 4-Bromofluorobenzene (surr) | 30 | | 101 | 30 | | 101 | (85-114) | 0.08 | |
| Toluene-d8 (surr) | 30 | | 100 | 30 | | 100 | (89-112) | 0.32 | |

Batch Information

Analytical Batch: VMS20957
Analytical Method: SW8260D
Instrument: Agilent 7890-75MS
Analyst: JMG

Prep Batch: VXX37480
Prep Method: SW5030B
Prep Date/Time: 07/22/2021 06:00
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

Print Date: 08/13/2021 2:32:50PM



Method Blank

Blank ID: MB for HBN 1822913 [VXX/37485]
Blank Lab ID: 1625397

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357006, 1214357008, 1214357009, 1214357016, 1214357017, 1214357018, 1214357019, 1214357039, 1214357040, 1214357041

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| 1,1,1,2-Tetrachloroethane | 10.0U | 20.0 | 6.20 | ug/kg |
| 1,1,1-Trichloroethane | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,1,2,2-Tetrachloroethane | 1.00U | 2.00 | 0.620 | ug/kg |
| 1,1,2-Trichloroethane | 0.400U | 0.800 | 0.250 | ug/kg |
| 1,1-Dichloroethane | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,1-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,1-Dichloropropene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,2,3-Trichlorobenzene | 25.0U | 50.0 | 15.0 | ug/kg |
| 1,2,3-Trichloropropane | 1.00U | 2.00 | 0.620 | ug/kg |
| 1,2,4-Trichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,2,4-Trimethylbenzene | 25.0U | 50.0 | 15.0 | ug/kg |
| 1,2-Dibromo-3-chloropropane | 50.0U | 100 | 31.0 | ug/kg |
| 1,2-Dibromoethane | 0.500U | 1.00 | 0.400 | ug/kg |
| 1,2-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,2-Dichloroethane | 1.00U | 2.00 | 0.700 | ug/kg |
| 1,2-Dichloropropane | 5.00U | 10.0 | 3.10 | ug/kg |
| 1,3,5-Trimethylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,3-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,3-Dichloropropane | 5.00U | 10.0 | 3.10 | ug/kg |
| 1,4-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 2,2-Dichloropropane | 12.5U | 25.0 | 7.80 | ug/kg |
| 2-Butanone (MEK) | 125U | 250 | 78.0 | ug/kg |
| 2-Chlorotoluene | 12.5U | 25.0 | 7.80 | ug/kg |
| 2-Hexanone | 50.0U | 100 | 31.0 | ug/kg |
| 4-Chlorotoluene | 12.5U | 25.0 | 7.80 | ug/kg |
| 4-Isopropyltoluene | 50.0U | 100 | 25.0 | ug/kg |
| 4-Methyl-2-pentanone (MIBK) | 125U | 250 | 78.0 | ug/kg |
| Acetone | 125U | 250 | 78.0 | ug/kg |
| Benzene | 6.25U | 12.5 | 3.90 | ug/kg |
| Bromobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Bromochloromethane | 12.5U | 25.0 | 7.80 | ug/kg |
| Bromodichloromethane | 1.00U | 2.00 | 0.620 | ug/kg |
| Bromoform | 12.5U | 25.0 | 7.80 | ug/kg |
| Bromomethane | 10.0U | 20.0 | 6.20 | ug/kg |
| Carbon disulfide | 50.0U | 100 | 31.0 | ug/kg |
| Carbon tetrachloride | 6.25U | 12.5 | 3.90 | ug/kg |
| Chlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Chloroethane | 100U | 200 | 62.0 | ug/kg |

Print Date: 08/13/2021 2:32:52PM



Method Blank

Blank ID: MB for HBN 1822913 [VXX/37485]
Blank Lab ID: 1625397

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357006, 1214357008, 1214357009, 1214357016, 1214357017, 1214357018, 1214357019, 1214357039, 1214357040, 1214357041

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------------------|----------------|---------------|-----------|--------------|
| Chloroform | 2.00U | 4.00 | 1.00 | ug/kg |
| Chloromethane | 12.5U | 25.0 | 7.80 | ug/kg |
| cis-1,2-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/kg |
| cis-1,3-Dichloropropene | 6.25U | 12.5 | 3.90 | ug/kg |
| Dibromochloromethane | 2.50U | 5.00 | 1.50 | ug/kg |
| Dibromomethane | 12.5U | 25.0 | 7.80 | ug/kg |
| Dichlorodifluoromethane | 25.0U | 50.0 | 15.0 | ug/kg |
| Ethylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Freon-113 | 50.0U | 100 | 31.0 | ug/kg |
| Hexachlorobutadiene | 10.0U | 20.0 | 6.20 | ug/kg |
| Isopropylbenzene (Cumene) | 12.5U | 25.0 | 7.80 | ug/kg |
| Methylene chloride | 50.0U | 100 | 31.0 | ug/kg |
| Methyl-t-butyl ether | 50.0U | 100 | 31.0 | ug/kg |
| Naphthalene | 12.5U | 25.0 | 7.80 | ug/kg |
| n-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| n-Propylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| o-Xylene | 12.5U | 25.0 | 7.80 | ug/kg |
| P & M -Xylene | 25.0U | 50.0 | 15.0 | ug/kg |
| sec-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Styrene | 12.5U | 25.0 | 7.80 | ug/kg |
| tert-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Tetrachloroethene | 6.25U | 12.5 | 3.90 | ug/kg |
| Toluene | 12.5U | 25.0 | 7.80 | ug/kg |
| trans-1,2-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/kg |
| trans-1,3-Dichloropropene | 6.25U | 12.5 | 3.90 | ug/kg |
| Trichloroethene | 2.50U | 5.00 | 1.50 | ug/kg |
| Trichlorofluoromethane | 25.0U | 50.0 | 15.0 | ug/kg |
| Vinyl acetate | 50.0U | 100 | 31.0 | ug/kg |
| Vinyl chloride | 0.400U | 0.800 | 0.250 | ug/kg |
| Xylenes (total) | 37.5U | 75.0 | 22.8 | ug/kg |
| Surrogates | | | | |
| 1,2-Dichloroethane-D4 (surr) | 109 | 71-136 | | % |
| 4-Bromofluorobenzene (surr) | 99.8 | 55-151 | | % |
| Toluene-d8 (surr) | 98.4 | 85-116 | | % |

Print Date: 08/13/2021 2:32:52PM



Method Blank

Blank ID: MB for HBN 1822913 [VXX/37485]
Blank Lab ID: 1625397

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357006, 1214357008, 1214357009, 1214357016, 1214357017, 1214357018, 1214357019, 1214357039, 1214357040, 1214357041

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
|------------------|----------------|---------------|-----------|--------------|

Batch Information

Analytical Batch: VMS20962
Analytical Method: SW8260D
Instrument: VQA 7890/5975 GC/MS
Analyst: S.S
Analytical Date/Time: 7/23/2021 10:41:00AM

Prep Batch: VXX37485
Prep Method: SW5035A
Prep Date/Time: 7/23/2021 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:32:52PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37485]

Blank Spike Lab ID: 1625398

Date Analyzed: 07/23/2021 10:57

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357006, 1214357008, 1214357009, 1214357016, 1214357017, 1214357018, 1214357019,
1214357039, 1214357040, 1214357041

Results by SW8260D

| Parameter | Blank Spike (ug/kg) | | | CL |
|-----------------------------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| 1,1,1,2-Tetrachloroethane | 750 | 783 | 104 | (78-125) |
| 1,1,1-Trichloroethane | 750 | 710 | 95 | (73-130) |
| 1,1,2,2-Tetrachloroethane | 750 | 814 | 108 | (70-124) |
| 1,1,2-Trichloroethane | 750 | 827 | 110 | (78-121) |
| 1,1-Dichloroethane | 750 | 692 | 92 | (76-125) |
| 1,1-Dichloroethene | 750 | 681 | 91 | (70-131) |
| 1,1-Dichloropropene | 750 | 739 | 99 | (76-125) |
| 1,2,3-Trichlorobenzene | 750 | 794 | 106 | (66-130) |
| 1,2,3-Trichloropropane | 750 | 725 | 97 | (73-125) |
| 1,2,4-Trichlorobenzene | 750 | 806 | 107 | (67-129) |
| 1,2,4-Trimethylbenzene | 750 | 790 | 105 | (75-123) |
| 1,2-Dibromo-3-chloropropane | 750 | 788 | 105 | (61-132) |
| 1,2-Dibromoethane | 750 | 832 | 111 | (78-122) |
| 1,2-Dichlorobenzene | 750 | 779 | 104 | (78-121) |
| 1,2-Dichloroethane | 750 | 671 | 90 | (73-128) |
| 1,2-Dichloropropane | 750 | 746 | 100 | (76-123) |
| 1,3,5-Trimethylbenzene | 750 | 774 | 103 | (73-124) |
| 1,3-Dichlorobenzene | 750 | 774 | 103 | (77-121) |
| 1,3-Dichloropropane | 750 | 809 | 108 | (77-121) |
| 1,4-Dichlorobenzene | 750 | 776 | 103 | (75-120) |
| 2,2-Dichloropropane | 750 | 739 | 99 | (67-133) |
| 2-Butanone (MEK) | 2250 | 2170 | 96 | (51-148) |
| 2-Chlorotoluene | 750 | 782 | 104 | (75-122) |
| 2-Hexanone | 2250 | 2470 | 110 | (53-145) |
| 4-Chlorotoluene | 750 | 773 | 103 | (72-124) |
| 4-Isopropyltoluene | 750 | 801 | 107 | (73-127) |
| 4-Methyl-2-pentanone (MIBK) | 2250 | 2300 | 102 | (65-135) |
| Acetone | 2250 | 2160 | 96 | (36-164) |
| Benzene | 750 | 737 | 98 | (77-121) |
| Bromobenzene | 750 | 793 | 106 | (78-121) |
| Bromochloromethane | 750 | 678 | 90 | (78-125) |
| Bromodichloromethane | 750 | 724 | 97 | (75-127) |
| Bromoform | 750 | 791 | 105 | (67-132) |
| Bromomethane | 750 | 668 | 89 | (53-143) |

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37485]

Blank Spike Lab ID: 1625398

Date Analyzed: 07/23/2021 10:57

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357006, 1214357008, 1214357009, 1214357016, 1214357017, 1214357018, 1214357019,
1214357039, 1214357040, 1214357041

Results by SW8260D

| Parameter | Blank Spike (ug/kg) | | | CL |
|---------------------------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| Carbon disulfide | 1130 | 993 | 88 | (63-132) |
| Carbon tetrachloride | 750 | 717 | 96 | (70-135) |
| Chlorobenzene | 750 | 742 | 99 | (79-120) |
| Chloroethane | 750 | 711 | 95 | (59-139) |
| Chloroform | 750 | 708 | 94 | (78-123) |
| Chloromethane | 750 | 666 | 89 | (50-136) |
| cis-1,2-Dichloroethene | 750 | 672 | 90 | (77-123) |
| cis-1,3-Dichloropropene | 750 | 794 | 106 | (74-126) |
| Dibromochloromethane | 750 | 827 | 110 | (74-126) |
| Dibromomethane | 750 | 712 | 95 | (78-125) |
| Dichlorodifluoromethane | 750 | 602 | 80 | (29-149) |
| Ethylbenzene | 750 | 727 | 97 | (76-122) |
| Freon-113 | 1130 | 1010 | 90 | (66-136) |
| Hexachlorobutadiene | 750 | 799 | 107 | (61-135) |
| Isopropylbenzene (Cumene) | 750 | 761 | 102 | (68-134) |
| Methylene chloride | 750 | 721 | 96 | (70-128) |
| Methyl-t-butyl ether | 1130 | 1060 | 94 | (73-125) |
| Naphthalene | 750 | 802 | 107 | (62-129) |
| n-Butylbenzene | 750 | 808 | 108 | (70-128) |
| n-Propylbenzene | 750 | 789 | 105 | (73-125) |
| o-Xylene | 750 | 747 | 100 | (77-123) |
| P & M -Xylene | 1500 | 1440 | 96 | (77-124) |
| sec-Butylbenzene | 750 | 791 | 106 | (73-126) |
| Styrene | 750 | 765 | 102 | (76-124) |
| tert-Butylbenzene | 750 | 793 | 106 | (73-125) |
| Tetrachloroethene | 750 | 778 | 104 | (73-128) |
| Toluene | 750 | 736 | 98 | (77-121) |
| trans-1,2-Dichloroethene | 750 | 695 | 93 | (74-125) |
| trans-1,3-Dichloropropene | 750 | 771 | 103 | (71-130) |
| Trichloroethene | 750 | 759 | 101 | (77-123) |
| Trichlorofluoromethane | 750 | 760 | 101 | (62-140) |
| Vinyl acetate | 750 | 781 | 104 | (50-151) |
| Vinyl chloride | 750 | 667 | 89 | (56-135) |
| Xylenes (total) | 2250 | 2190 | 97 | (78-124) |

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37485]

Blank Spike Lab ID: 1625398

Date Analyzed: 07/23/2021 10:57

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357006, 1214357008, 1214357009, 1214357016, 1214357017, 1214357018, 1214357019,
1214357039, 1214357040, 1214357041

Results by SW8260D

| Parameter | Blank Spike (ug/kg) | | | CL |
|------------------------------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| Surrogates | | | | |
| 1,2-Dichloroethane-D4 (surr) | 750 | 94 | | (71-136) |
| 4-Bromofluorobenzene (surr) | 750 | 96 | | (55-151) |
| Toluene-d8 (surr) | 750 | 99 | | (85-116) |

Batch Information

Analytical Batch: VMS20962

Analytical Method: SW8260D

Instrument: VQA 7890/5975 GC/MS

Analyst: S.S

Prep Batch: VXX37485

Prep Method: SW5035A

Prep Date/Time: 07/23/2021 06:00

Spike Init Wt./Vol.: 750 ug/kg Extract Vol: 25 mL

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/13/2021 2:32:55PM



Matrix Spike Summary

Original Sample ID: 1625399
 MS Sample ID: 1625400 MS
 MSD Sample ID: 1625401 MSD

Analysis Date: 07/23/2021 15:21
 Analysis Date: 07/23/2021 12:36
 Analysis Date: 07/23/2021 12:52
 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357006, 1214357008, 1214357009, 1214357016, 1214357017, 1214357018, 1214357019, 1214357039, 1214357040, 1214357041

Results by SW8260D

| Parameter | Sample | Matrix Spike (ug/kg) | | | Spike Duplicate (ug/kg) | | | CL | RPD (%) | RPD CL |
|-----------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1,1,1,2-Tetrachloroethane | 8.75U | 657 | 690 | 105 | 657 | 687 | 105 | 78-125 | 0.54 | (< 20) |
| 1,1,1-Trichloroethane | 10.9U | 657 | 642 | 98 | 657 | 627 | 95 | 73-130 | 2.40 | (< 20) |
| 1,1,2,2-Tetrachloroethane | 0.875U | 657 | 750 | 114 | 657 | 759 | 116 | 70-124 | 1.10 | (< 20) |
| 1,1,2-Trichloroethane | 0.350U | 657 | 754 | 115 | 657 | 747 | 114 | 78-121 | 1.10 | (< 20) |
| 1,1-Dichloroethane | 10.9U | 657 | 616 | 94 | 657 | 603 | 92 | 76-125 | 2.00 | (< 20) |
| 1,1-Dichloroethene | 10.9U | 657 | 605 | 92 | 657 | 587 | 89 | 70-131 | 3.00 | (< 20) |
| 1,1-Dichloropropene | 10.9U | 657 | 648 | 99 | 657 | 633 | 96 | 76-125 | 2.50 | (< 20) |
| 1,2,3-Trichlorobenzene | 21.9U | 657 | 710 | 108 | 657 | 760 | 116 | 66-130 | 6.80 | (< 20) |
| 1,2,3-Trichloropropane | 0.875U | 657 | 721 | 110 | 657 | 706 | 107 | 73-125 | 2.10 | (< 20) |
| 1,2,4-Trichlorobenzene | 10.9U | 657 | 706 | 107 | 657 | 748 | 114 | 67-129 | 5.80 | (< 20) |
| 1,2,4-Trimethylbenzene | 21.9U | 657 | 712 | 108 | 657 | 712 | 108 | 75-123 | 0.03 | (< 20) |
| 1,2-Dibromo-3-chloropropane | 43.8U | 657 | 710 | 108 | 657 | 721 | 110 | 61-132 | 1.50 | (< 20) |
| 1,2-Dibromoethane | 0.438U | 657 | 752 | 114 | 657 | 748 | 114 | 78-122 | 0.47 | (< 20) |
| 1,2-Dichlorobenzene | 10.9U | 657 | 705 | 107 | 657 | 708 | 108 | 78-121 | 0.43 | (< 20) |
| 1,2-Dichloroethane | 0.875U | 657 | 611 | 93 | 657 | 600 | 91 | 73-128 | 1.90 | (< 20) |
| 1,2-Dichloropropane | 4.38U | 657 | 672 | 102 | 657 | 660 | 100 | 76-123 | 1.80 | (< 20) |
| 1,3,5-Trimethylbenzene | 10.9U | 657 | 716 | 109 | 657 | 713 | 109 | 73-124 | 0.40 | (< 20) |
| 1,3-Dichlorobenzene | 10.9U | 657 | 700 | 107 | 657 | 703 | 107 | 77-121 | 0.37 | (< 20) |
| 1,3-Dichloropropane | 4.38U | 657 | 727 | 111 | 657 | 718 | 109 | 77-121 | 1.20 | (< 20) |
| 1,4-Dichlorobenzene | 10.9U | 657 | 707 | 108 | 657 | 708 | 108 | 75-120 | 0.15 | (< 20) |
| 2,2-Dichloropropane | 10.9U | 657 | 649 | 99 | 657 | 633 | 96 | 67-133 | 2.40 | (< 20) |
| 2-Butanone (MEK) | 110U | 1970 | 1940 | 98 | 1970 | 1920 | 97 | 51-148 | 0.92 | (< 20) |
| 2-Chlorotoluene | 10.9U | 657 | 699 | 106 | 657 | 704 | 107 | 75-122 | 0.72 | (< 20) |
| 2-Hexanone | 43.8U | 1970 | 2240 | 114 | 1970 | 2250 | 114 | 53-145 | 0.20 | (< 20) |
| 4-Chlorotoluene | 10.9U | 657 | 704 | 107 | 657 | 707 | 108 | 72-124 | 0.40 | (< 20) |
| 4-Isopropyltoluene | 43.8U | 657 | 719 | 109 | 657 | 708 | 108 | 73-127 | 1.40 | (< 20) |
| 4-Methyl-2-pentanone (MIBK) | 110U | 1970 | 2070 | 105 | 1970 | 2080 | 105 | 65-135 | 0.36 | (< 20) |
| Acetone | 110U | 1970 | 1940 | 98 | 1970 | 1900 | 96 | 36-164 | 2.10 | (< 20) |
| Benzene | 5.50U | 657 | 647 | 99 | 657 | 638 | 97 | 77-121 | 1.40 | (< 20) |
| Bromobenzene | 10.9U | 657 | 715 | 109 | 657 | 716 | 109 | 78-121 | 0.06 | (< 20) |
| Bromochloromethane | 10.9U | 657 | 614 | 94 | 657 | 607 | 92 | 78-125 | 1.20 | (< 20) |
| Bromodichloromethane | 0.875U | 657 | 667 | 102 | 657 | 653 | 99 | 75-127 | 2.10 | (< 20) |
| Bromoform | 10.9U | 657 | 732 | 111 | 657 | 732 | 111 | 67-132 | 0.03 | (< 20) |
| Bromomethane | 8.75U | 657 | 668 | 102 | 657 | 671 | 102 | 53-143 | 0.36 | (< 20) |
| Carbon disulfide | 43.8U | 986 | 884 | 90 | 986 | 860 | 87 | 63-132 | 2.80 | (< 20) |
| Carbon tetrachloride | 5.50U | 657 | 643 | 98 | 657 | 625 | 95 | 70-135 | 2.80 | (< 20) |
| Chlorobenzene | 10.9U | 657 | 667 | 102 | 657 | 662 | 101 | 79-120 | 0.73 | (< 20) |

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Matrix Spike Summary

Original Sample ID: 1625399
 MS Sample ID: 1625400 MS
 MSD Sample ID: 1625401 MSD

Analysis Date: 07/23/2021 15:21
 Analysis Date: 07/23/2021 12:36
 Analysis Date: 07/23/2021 12:52
 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357006, 1214357008, 1214357009, 1214357016, 1214357017, 1214357018, 1214357019, 1214357039, 1214357040, 1214357041

Results by SW8260D

| Parameter | Sample | Matrix Spike (ug/kg) | | | Spike Duplicate (ug/kg) | | | CL | RPD (%) | RPD CL |
|------------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Chloroethane | 87.5U | 657 | 694 | 106 | 657 | 670 | 102 | 59-139 | 3.60 | (< 20) |
| Chloroform | 1.75U | 657 | 642 | 98 | 657 | 628 | 96 | 78-123 | 2.20 | (< 20) |
| Chloromethane | 10.9U | 657 | 633 | 96 | 657 | 620 | 94 | 50-136 | 2.00 | (< 20) |
| cis-1,2-Dichloroethene | 10.9U | 657 | 637 | 97 | 657 | 613 | 93 | 77-123 | 3.90 | (< 20) |
| cis-1,3-Dichloropropene | 5.50U | 657 | 710 | 108 | 657 | 701 | 107 | 74-126 | 1.30 | (< 20) |
| Dibromochloromethane | 2.19U | 657 | 764 | 116 | 657 | 762 | 116 | 74-126 | 0.20 | (< 20) |
| Dibromomethane | 10.9U | 657 | 642 | 98 | 657 | 634 | 96 | 78-125 | 1.30 | (< 20) |
| Dichlorodifluoromethane | 21.9U | 657 | 604 | 92 | 657 | 585 | 89 | 29-149 | 3.10 | (< 20) |
| Ethylbenzene | 10.9U | 657 | 644 | 98 | 657 | 634 | 97 | 76-122 | 1.50 | (< 20) |
| Freon-113 | 43.8U | 986 | 912 | 93 | 986 | 881 | 89 | 66-136 | 3.40 | (< 20) |
| Hexachlorobutadiene | 8.75U | 657 | 751 | 114 | 657 | 783 | 119 | 61-135 | 4.30 | (< 20) |
| Isopropylbenzene (Cumene) | 10.9U | 657 | 674 | 103 | 657 | 664 | 101 | 68-134 | 1.40 | (< 20) |
| Methylene chloride | 43.8U | 657 | 621 | 95 | 657 | 601 | 92 | 70-128 | 3.30 | (< 20) |
| Methyl-t-butyl ether | 43.8U | 986 | 918 | 93 | 986 | 933 | 95 | 73-125 | 1.60 | (< 20) |
| Naphthalene | 10.9U | 657 | 720 | 110 | 657 | 762 | 116 | 62-129 | 5.80 | (< 20) |
| n-Butylbenzene | 10.9U | 657 | 720 | 110 | 657 | 725 | 110 | 70-128 | 0.67 | (< 20) |
| n-Propylbenzene | 10.9U | 657 | 713 | 109 | 657 | 710 | 108 | 73-125 | 0.46 | (< 20) |
| o-Xylene | 10.9U | 657 | 658 | 100 | 657 | 653 | 99 | 77-123 | 0.67 | (< 20) |
| P & M -Xylene | 21.9U | 1310 | 1270 | 96 | 1310 | 1260 | 96 | 77-124 | 0.75 | (< 20) |
| sec-Butylbenzene | 10.9U | 657 | 699 | 106 | 657 | 701 | 107 | 73-126 | 0.19 | (< 20) |
| Styrene | 10.9U | 657 | 678 | 103 | 657 | 677 | 103 | 76-124 | 0.26 | (< 20) |
| tert-Butylbenzene | 10.9U | 657 | 710 | 108 | 657 | 705 | 107 | 73-125 | 0.65 | (< 20) |
| Tetrachloroethene | 5.50U | 657 | 699 | 106 | 657 | 677 | 103 | 73-128 | 3.20 | (< 20) |
| Toluene | 10.9U | 657 | 657 | 100 | 657 | 647 | 98 | 77-121 | 1.60 | (< 20) |
| trans-1,2-Dichloroethene | 10.9U | 657 | 618 | 94 | 657 | 614 | 94 | 74-125 | 0.60 | (< 20) |
| trans-1,3-Dichloropropene | 5.50U | 657 | 698 | 106 | 657 | 696 | 106 | 71-130 | 0.19 | (< 20) |
| Trichloroethene | 2.19U | 657 | 682 | 104 | 657 | 667 | 102 | 77-123 | 2.20 | (< 20) |
| Trichlorofluoromethane | 21.9U | 657 | 947 | 144 * | 657 | 915 | 139 | 62-140 | 3.40 | (< 20) |
| Vinyl acetate | 43.8U | 657 | 708 | 108 | 657 | 707 | 108 | 50-151 | 0.25 | (< 20) |
| Vinyl chloride | 0.350U | 657 | 654 | 100 | 657 | 635 | 97 | 56-135 | 3.00 | (< 20) |
| Xylenes (total) | 32.9U | 1970 | 1920 | 98 | 1970 | 1910 | 97 | 78-124 | 0.72 | (< 20) |
| Surrogates | | | | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | | 657 | 627 | 96 | 657 | 621 | 95 | 71-136 | 1.10 | |
| 4-Bromofluorobenzene (surr) | | 1100 | 834 | 76 | 1100 | 838 | 77 | 55-151 | 0.50 | |
| Toluene-d8 (surr) | | 657 | 648 | 99 | 657 | 652 | 99 | 85-116 | 0.54 | |

Print Date: 08/13/2021 2:32:56PM



Matrix Spike Summary

Original Sample ID: 1625399
MS Sample ID: 1625400 MS
MSD Sample ID: 1625401 MSD

Analysis Date:
Analysis Date: 07/23/2021 12:36
Analysis Date: 07/23/2021 12:52
Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357006, 1214357008, 1214357009, 1214357016, 1214357017, 1214357018, 1214357019, 1214357039, 1214357040, 1214357041

Results by SW8260D

| Parameter | Sample | Matrix Spike (%) | | | Spike Duplicate (%) | | | CL | RPD (%) | RPD CL |
|-----------|--------|------------------|--------|---------|---------------------|--------|---------|----|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |

Batch Information

Analytical Batch: VMS20962
Analytical Method: SW8260D
Instrument: VQA 7890/5975 GC/MS
Analyst: S.S
Analytical Date/Time: 7/23/2021 12:36:00PM

Prep Batch: VXX37485
Prep Method: Vol. Extraction SW8260 Field Extracted L
Prep Date/Time: 7/23/2021 6:00:00AM
Prep Initial Wt./Vol.: 57.08g
Prep Extract Vol: 25.00mL

Print Date: 08/13/2021 2:32:56PM



Method Blank

Blank ID: MB for HBN 1823000 [VXX/37499]

Matrix: Soil/Solid (dry weight)

Blank Lab ID: 1625714

QC for Samples:

1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| 1,1,1,2-Tetrachloroethane | 10.0U | 20.0 | 6.20 | ug/kg |
| 1,1,1-Trichloroethane | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,1,2,2-Tetrachloroethane | 1.00U | 2.00 | 0.620 | ug/kg |
| 1,1,2-Trichloroethane | 0.400U | 0.800 | 0.250 | ug/kg |
| 1,1-Dichloroethane | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,1-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,1-Dichloropropene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,2,3-Trichlorobenzene | 25.0U | 50.0 | 15.0 | ug/kg |
| 1,2,3-Trichloropropane | 1.00U | 2.00 | 0.620 | ug/kg |
| 1,2,4-Trichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,2,4-Trimethylbenzene | 25.0U | 50.0 | 15.0 | ug/kg |
| 1,2-Dibromo-3-chloropropane | 50.0U | 100 | 31.0 | ug/kg |
| 1,2-Dibromoethane | 0.500U | 1.00 | 0.400 | ug/kg |
| 1,2-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,2-Dichloroethane | 1.00U | 2.00 | 0.700 | ug/kg |
| 1,2-Dichloropropane | 5.00U | 10.0 | 3.10 | ug/kg |
| 1,3,5-Trimethylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,3-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,3-Dichloropropane | 5.00U | 10.0 | 3.10 | ug/kg |
| 1,4-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 2,2-Dichloropropane | 12.5U | 25.0 | 7.80 | ug/kg |
| 2-Butanone (MEK) | 125U | 250 | 78.0 | ug/kg |
| 2-Chlorotoluene | 12.5U | 25.0 | 7.80 | ug/kg |
| 2-Hexanone | 50.0U | 100 | 31.0 | ug/kg |
| 4-Chlorotoluene | 12.5U | 25.0 | 7.80 | ug/kg |
| 4-Isopropyltoluene | 50.0U | 100 | 25.0 | ug/kg |
| 4-Methyl-2-pentanone (MIBK) | 125U | 250 | 78.0 | ug/kg |
| Acetone | 125U | 250 | 78.0 | ug/kg |
| Benzene | 6.25U | 12.5 | 3.90 | ug/kg |
| Bromobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Bromochloromethane | 12.5U | 25.0 | 7.80 | ug/kg |
| Bromodichloromethane | 1.00U | 2.00 | 0.620 | ug/kg |
| Bromoform | 12.5U | 25.0 | 7.80 | ug/kg |
| Bromomethane | 10.0U | 20.0 | 6.20 | ug/kg |
| Carbon disulfide | 50.0U | 100 | 31.0 | ug/kg |
| Carbon tetrachloride | 6.25U | 12.5 | 3.90 | ug/kg |
| Chlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Chloroethane | 100U | 200 | 62.0 | ug/kg |

Print Date: 08/13/2021 2:32:58PM



Method Blank

Blank ID: MB for HBN 1823000 [VXX/37499]
Blank Lab ID: 1625714

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------------------|----------------|---------------|-----------|--------------|
| Chloroform | 2.00U | 4.00 | 1.00 | ug/kg |
| Chloromethane | 12.5U | 25.0 | 7.80 | ug/kg |
| cis-1,2-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/kg |
| cis-1,3-Dichloropropene | 6.25U | 12.5 | 3.90 | ug/kg |
| Dibromochloromethane | 2.50U | 5.00 | 1.50 | ug/kg |
| Dibromomethane | 12.5U | 25.0 | 7.80 | ug/kg |
| Dichlorodifluoromethane | 25.0U | 50.0 | 15.0 | ug/kg |
| Ethylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Freon-113 | 50.0U | 100 | 31.0 | ug/kg |
| Hexachlorobutadiene | 10.0U | 20.0 | 6.20 | ug/kg |
| Isopropylbenzene (Cumene) | 12.5U | 25.0 | 7.80 | ug/kg |
| Methylene chloride | 50.0U | 100 | 31.0 | ug/kg |
| Methyl-t-butyl ether | 50.0U | 100 | 31.0 | ug/kg |
| Naphthalene | 12.5U | 25.0 | 7.80 | ug/kg |
| n-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| n-Propylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| o-Xylene | 12.5U | 25.0 | 7.80 | ug/kg |
| P & M -Xylene | 25.0U | 50.0 | 15.0 | ug/kg |
| sec-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Styrene | 12.5U | 25.0 | 7.80 | ug/kg |
| tert-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Tetrachloroethene | 6.25U | 12.5 | 3.90 | ug/kg |
| Toluene | 12.5U | 25.0 | 7.80 | ug/kg |
| trans-1,2-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/kg |
| trans-1,3-Dichloropropene | 6.25U | 12.5 | 3.90 | ug/kg |
| Trichloroethene | 2.50U | 5.00 | 1.50 | ug/kg |
| Trichlorofluoromethane | 25.0U | 50.0 | 15.0 | ug/kg |
| Vinyl acetate | 50.0U | 100 | 31.0 | ug/kg |
| Vinyl chloride | 0.400U | 0.800 | 0.250 | ug/kg |
| Xylenes (total) | 37.5U | 75.0 | 22.8 | ug/kg |
| Surrogates | | | | |
| 1,2-Dichloroethane-D4 (surr) | 110 | 71-136 | | % |
| 4-Bromofluorobenzene (surr) | 99.5 | 55-151 | | % |
| Toluene-d8 (surr) | 98.6 | 85-116 | | % |

Print Date: 08/13/2021 2:32:58PM



Method Blank

Blank ID: MB for HBN 1823000 [VXX/37499]
Blank Lab ID: 1625714

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
|------------------|----------------|---------------|-----------|--------------|

Batch Information

Analytical Batch: VMS20967
Analytical Method: SW8260D
Instrument: VQA 7890/5975 GC/MS
Analyst: S.S
Analytical Date/Time: 7/25/2021 1:05:00PM

Prep Batch: VXX37499
Prep Method: SW5035A
Prep Date/Time: 7/25/2021 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:32:58PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37499]

Blank Spike Lab ID: 1625715

Date Analyzed: 07/25/2021 13:21

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030

Results by SW8260D

| Parameter | Blank Spike (ug/kg) | | | CL |
|-----------------------------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| 1,1,1,2-Tetrachloroethane | 750 | 787 | 105 | (78-125) |
| 1,1,1-Trichloroethane | 750 | 705 | 94 | (73-130) |
| 1,1,2,2-Tetrachloroethane | 750 | 843 | 112 | (70-124) |
| 1,1,2-Trichloroethane | 750 | 830 | 111 | (78-121) |
| 1,1-Dichloroethane | 750 | 695 | 93 | (76-125) |
| 1,1-Dichloroethene | 750 | 678 | 90 | (70-131) |
| 1,1-Dichloropropene | 750 | 728 | 97 | (76-125) |
| 1,2,3-Trichlorobenzene | 750 | 825 | 110 | (66-130) |
| 1,2,3-Trichloropropane | 750 | 802 | 107 | (73-125) |
| 1,2,4-Trichlorobenzene | 750 | 838 | 112 | (67-129) |
| 1,2,4-Trimethylbenzene | 750 | 831 | 111 | (75-123) |
| 1,2-Dibromo-3-chloropropane | 750 | 802 | 107 | (61-132) |
| 1,2-Dibromoethane | 750 | 836 | 111 | (78-122) |
| 1,2-Dichlorobenzene | 750 | 815 | 109 | (78-121) |
| 1,2-Dichloroethane | 750 | 679 | 91 | (73-128) |
| 1,2-Dichloropropane | 750 | 756 | 101 | (76-123) |
| 1,3,5-Trimethylbenzene | 750 | 848 | 113 | (73-124) |
| 1,3-Dichlorobenzene | 750 | 822 | 110 | (77-121) |
| 1,3-Dichloropropane | 750 | 812 | 108 | (77-121) |
| 1,4-Dichlorobenzene | 750 | 822 | 110 | (75-120) |
| 2,2-Dichloropropane | 750 | 725 | 97 | (67-133) |
| 2-Butanone (MEK) | 2250 | 2070 | 92 | (51-148) |
| 2-Chlorotoluene | 750 | 824 | 110 | (75-122) |
| 2-Hexanone | 2250 | 2380 | 106 | (53-145) |
| 4-Chlorotoluene | 750 | 816 | 109 | (72-124) |
| 4-Isopropyltoluene | 750 | 841 | 112 | (73-127) |
| 4-Methyl-2-pentanone (MIBK) | 2250 | 2240 | 100 | (65-135) |
| Acetone | 2250 | 2060 | 92 | (36-164) |
| Benzene | 750 | 736 | 98 | (77-121) |
| Bromobenzene | 750 | 833 | 111 | (78-121) |
| Bromochloromethane | 750 | 711 | 95 | (78-125) |
| Bromodichloromethane | 750 | 737 | 98 | (75-127) |
| Bromoform | 750 | 793 | 106 | (67-132) |
| Bromomethane | 750 | 657 | 88 | (53-143) |

Print Date: 08/13/2021 2:33:00PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37499]

Blank Spike Lab ID: 1625715

Date Analyzed: 07/25/2021 13:21

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030

Results by SW8260D

Blank Spike (ug/kg)

| Parameter | Spike | Result | Rec (%) | CL |
|---------------------------|-------|--------|---------|--------------|
| Carbon disulfide | 1130 | 996 | 89 | (63-132) |
| Carbon tetrachloride | 750 | 705 | 94 | (70-135) |
| Chlorobenzene | 750 | 745 | 99 | (79-120) |
| Chloroethane | 750 | 765 | 102 | (59-139) |
| Chloroform | 750 | 718 | 96 | (78-123) |
| Chloromethane | 750 | 695 | 93 | (50-136) |
| cis-1,2-Dichloroethene | 750 | 672 | 90 | (77-123) |
| cis-1,3-Dichloropropene | 750 | 797 | 106 | (74-126) |
| Dibromochloromethane | 750 | 832 | 111 | (74-126) |
| Dibromomethane | 750 | 726 | 97 | (78-125) |
| Dichlorodifluoromethane | 750 | 673 | 90 | (29-149) |
| Ethylbenzene | 750 | 725 | 97 | (76-122) |
| Freon-113 | 1130 | 998 | 89 | (66-136) |
| Hexachlorobutadiene | 750 | 834 | 111 | (61-135) |
| Isopropylbenzene (Cumene) | 750 | 760 | 101 | (68-134) |
| Methylene chloride | 750 | 723 | 96 | (70-128) |
| Methyl-t-butyl ether | 1130 | 1040 | 92 | (73-125) |
| Naphthalene | 750 | 821 | 109 | (62-129) |
| n-Butylbenzene | 750 | 853 | 114 | (70-128) |
| n-Propylbenzene | 750 | 827 | 110 | (73-125) |
| o-Xylene | 750 | 751 | 100 | (77-123) |
| P & M -Xylene | 1500 | 1460 | 97 | (77-124) |
| sec-Butylbenzene | 750 | 821 | 110 | (73-126) |
| Styrene | 750 | 767 | 102 | (76-124) |
| tert-Butylbenzene | 750 | 825 | 110 | (73-125) |
| Tetrachloroethene | 750 | 760 | 101 | (73-128) |
| Toluene | 750 | 736 | 98 | (77-121) |
| trans-1,2-Dichloroethene | 750 | 705 | 94 | (74-125) |
| trans-1,3-Dichloropropene | 750 | 772 | 103 | (71-130) |
| Trichloroethene | 750 | 758 | 101 | (77-123) |
| Trichlorofluoromethane | 750 | 1080 | 144 | * (62-140) |
| Vinyl acetate | 750 | 780 | 104 | (50-151) |
| Vinyl chloride | 750 | 696 | 93 | (56-135) |
| Xylenes (total) | 2250 | 2210 | 98 | (78-124) |

Print Date: 08/13/2021 2:33:00PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37499]

Blank Spike Lab ID: 1625715

Date Analyzed: 07/25/2021 13:21

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026,
1214357027, 1214357028, 1214357029, 1214357030

Results by SW8260D

| Parameter | Blank Spike (ug/kg) | | | CL |
|------------------------------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| Surrogates | | | | |
| 1,2-Dichloroethane-D4 (surr) | 750 | 94 | | (71-136) |
| 4-Bromofluorobenzene (surr) | 750 | 99 | | (55-151) |
| Toluene-d8 (surr) | 750 | 100 | | (85-116) |

Batch Information

Analytical Batch: VMS20967

Analytical Method: SW8260D

Instrument: VQA 7890/5975 GC/MS

Analyst: S.S

Prep Batch: VXX37499

Prep Method: SW5035A

Prep Date/Time: 07/25/2021 06:00

Spike Init Wt./Vol.: 750 ug/kg Extract Vol: 25 mL

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/13/2021 2:33:00PM



Matrix Spike Summary

Original Sample ID: 1625716
 MS Sample ID: 1625717 MS
 MSD Sample ID: 1625718 MSD

Analysis Date: 07/25/2021 17:19
 Analysis Date: 07/25/2021 15:24
 Analysis Date: 07/25/2021 15:40
 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030

Results by SW8260D

| Parameter | Sample | Matrix Spike (ug/kg) | | | Spike Duplicate (ug/kg) | | | CL | RPD (%) | RPD CL |
|-----------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1,1,1,2-Tetrachloroethane | 7.05U | 528 | 539 | 102 | 528 | 533 | 101 | 78-125 | 1.20 | (< 20) |
| 1,1,1-Trichloroethane | 8.80U | 528 | 485 | 92 | 528 | 476 | 90 | 73-130 | 1.90 | (< 20) |
| 1,1,2,2-Tetrachloroethane | 0.705U | 528 | 580 | 110 | 528 | 568 | 108 | 70-124 | 2.20 | (< 20) |
| 1,1,2-Trichloroethane | 0.281U | 528 | 578 | 109 | 528 | 579 | 110 | 78-121 | 0.21 | (< 20) |
| 1,1-Dichloroethane | 8.80U | 528 | 476 | 90 | 528 | 470 | 89 | 76-125 | 1.20 | (< 20) |
| 1,1-Dichloroethene | 8.80U | 528 | 451 | 86 | 528 | 444 | 84 | 70-131 | 1.50 | (< 20) |
| 1,1-Dichloropropene | 8.80U | 528 | 484 | 92 | 528 | 476 | 90 | 76-125 | 1.60 | (< 20) |
| 1,2,3-Trichlorobenzene | 17.6U | 528 | 579 | 110 | 528 | 590 | 112 | 66-130 | 1.70 | (< 20) |
| 1,2,3-Trichloropropane | 0.705U | 528 | 510 | 97 | 528 | 551 | 104 | 73-125 | 7.80 | (< 20) |
| 1,2,4-Trichlorobenzene | 8.80U | 528 | 575 | 109 | 528 | 572 | 108 | 67-129 | 0.52 | (< 20) |
| 1,2,4-Trimethylbenzene | 17.6U | 528 | 555 | 105 | 528 | 548 | 104 | 75-123 | 1.30 | (< 20) |
| 1,2-Dibromo-3-chloropropane | 35.2U | 528 | 552 | 105 | 528 | 545 | 103 | 61-132 | 1.30 | (< 20) |
| 1,2-Dibromoethane | 0.352U | 528 | 577 | 109 | 528 | 573 | 109 | 78-122 | 0.67 | (< 20) |
| 1,2-Dichlorobenzene | 8.80U | 528 | 542 | 103 | 528 | 534 | 101 | 78-121 | 1.60 | (< 20) |
| 1,2-Dichloroethane | 0.705U | 528 | 470 | 89 | 528 | 466 | 88 | 73-128 | 0.86 | (< 20) |
| 1,2-Dichloropropane | 3.52U | 528 | 524 | 99 | 528 | 520 | 99 | 76-123 | 0.67 | (< 20) |
| 1,3,5-Trimethylbenzene | 8.80U | 528 | 529 | 100 | 528 | 545 | 103 | 73-124 | 3.00 | (< 20) |
| 1,3-Dichlorobenzene | 8.80U | 528 | 542 | 103 | 528 | 530 | 100 | 77-121 | 2.20 | (< 20) |
| 1,3-Dichloropropane | 3.52U | 528 | 558 | 106 | 528 | 555 | 105 | 77-121 | 0.54 | (< 20) |
| 1,4-Dichlorobenzene | 8.80U | 528 | 548 | 104 | 528 | 536 | 102 | 75-120 | 2.20 | (< 20) |
| 2,2-Dichloropropane | 8.80U | 528 | 488 | 93 | 528 | 479 | 91 | 67-133 | 1.90 | (< 20) |
| 2-Butanone (MEK) | 88.0U | 1580 | 1430 | 90 | 1580 | 1430 | 90 | 51-148 | 0.20 | (< 20) |
| 2-Chlorotoluene | 8.80U | 528 | 543 | 103 | 528 | 530 | 100 | 75-122 | 2.50 | (< 20) |
| 2-Hexanone | 35.2U | 1580 | 1660 | 105 | 1580 | 1660 | 105 | 53-145 | 0.21 | (< 20) |
| 4-Chlorotoluene | 8.80U | 528 | 533 | 101 | 528 | 526 | 100 | 72-124 | 1.40 | (< 20) |
| 4-Isopropyltoluene | 35.2U | 528 | 548 | 104 | 528 | 533 | 101 | 73-127 | 2.70 | (< 20) |
| 4-Methyl-2-pentanone (MIBK) | 88.0U | 1580 | 1550 | 98 | 1580 | 1560 | 99 | 65-135 | 0.61 | (< 20) |
| Acetone | 88.0U | 1580 | 1420 | 90 | 1580 | 1410 | 89 | 36-164 | 0.68 | (< 20) |
| Benzene | 6.33J | 528 | 509 | 95 | 528 | 500 | 94 | 77-121 | 1.90 | (< 20) |
| Bromobenzene | 8.80U | 528 | 556 | 105 | 528 | 545 | 103 | 78-121 | 1.90 | (< 20) |
| Bromochloromethane | 8.80U | 528 | 482 | 91 | 528 | 476 | 90 | 78-125 | 1.30 | (< 20) |
| Bromodichloromethane | 0.705U | 528 | 520 | 99 | 528 | 513 | 97 | 75-127 | 1.30 | (< 20) |
| Bromoform | 8.80U | 528 | 561 | 106 | 528 | 556 | 105 | 67-132 | 0.91 | (< 20) |
| Bromomethane | 7.05U | 528 | 484 | 92 | 528 | 483 | 92 | 53-143 | 0.04 | (< 20) |
| Carbon disulfide | 35.2U | 791 | 668 | 84 | 791 | 655 | 83 | 63-132 | 1.90 | (< 20) |
| Carbon tetrachloride | 4.39U | 528 | 482 | 91 | 528 | 470 | 89 | 70-135 | 2.60 | (< 20) |
| Chlorobenzene | 8.80U | 528 | 517 | 98 | 528 | 510 | 97 | 79-120 | 1.40 | (< 20) |

Print Date: 08/13/2021 2:33:02PM



Matrix Spike Summary

Original Sample ID: 1625716
 MS Sample ID: 1625717 MS
 MSD Sample ID: 1625718 MSD

Analysis Date: 07/25/2021 17:19
 Analysis Date: 07/25/2021 15:24
 Analysis Date: 07/25/2021 15:40
 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030

Results by SW8260D

| Parameter | Sample | Matrix Spike (ug/kg) | | | Spike Duplicate (ug/kg) | | | CL | RPD (%) | RPD CL |
|------------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Chloroethane | 70.5U | 528 | 533 | 101 | 528 | 513 | 97 | 59-139 | 3.80 | (< 20) |
| Chloroform | 1.41U | 528 | 499 | 95 | 528 | 491 | 93 | 78-123 | 1.60 | (< 20) |
| Chloromethane | 8.80U | 528 | 468 | 89 | 528 | 460 | 87 | 50-136 | 1.70 | (< 20) |
| cis-1,2-Dichloroethene | 8.80U | 528 | 471 | 89 | 528 | 479 | 91 | 77-123 | 1.60 | (< 20) |
| cis-1,3-Dichloropropene | 4.39U | 528 | 548 | 104 | 528 | 548 | 104 | 74-126 | 0.03 | (< 20) |
| Dibromochloromethane | 1.76U | 528 | 594 | 113 | 528 | 589 | 112 | 74-126 | 0.86 | (< 20) |
| Dibromomethane | 8.80U | 528 | 496 | 94 | 528 | 491 | 93 | 78-125 | 1.00 | (< 20) |
| Dichlorodifluoromethane | 17.6U | 528 | 424 | 80 | 528 | 407 | 77 | 29-149 | 4.00 | (< 20) |
| Ethylbenzene | 8.80U | 528 | 501 | 95 | 528 | 494 | 94 | 76-122 | 1.40 | (< 20) |
| Freon-113 | 35.2U | 791 | 673 | 85 | 791 | 651 | 82 | 66-136 | 3.20 | (< 20) |
| Hexachlorobutadiene | 7.05U | 528 | 570 | 108 | 528 | 559 | 106 | 61-135 | 2.00 | (< 20) |
| Isopropylbenzene (Cumene) | 8.80U | 528 | 510 | 97 | 528 | 504 | 95 | 68-134 | 1.20 | (< 20) |
| Methylene chloride | 35.2U | 528 | 483 | 92 | 528 | 477 | 90 | 70-128 | 1.30 | (< 20) |
| Methyl-t-butyl ether | 35.2U | 791 | 720 | 91 | 791 | 714 | 90 | 73-125 | 0.83 | (< 20) |
| Naphthalene | 8.80U | 528 | 568 | 108 | 528 | 582 | 110 | 62-129 | 2.40 | (< 20) |
| n-Butylbenzene | 8.80U | 528 | 549 | 104 | 528 | 532 | 101 | 70-128 | 3.20 | (< 20) |
| n-Propylbenzene | 8.80U | 528 | 541 | 103 | 528 | 528 | 100 | 73-125 | 2.30 | (< 20) |
| o-Xylene | 9.67J | 528 | 522 | 97 | 528 | 518 | 96 | 77-123 | 0.64 | (< 20) |
| P & M -Xylene | 22.5J | 1060 | 1020 | 94 | 1060 | 1000 | 93 | 77-124 | 1.20 | (< 20) |
| sec-Butylbenzene | 8.80U | 528 | 527 | 100 | 528 | 516 | 98 | 73-126 | 2.10 | (< 20) |
| Styrene | 8.80U | 528 | 523 | 99 | 528 | 518 | 98 | 76-124 | 0.95 | (< 20) |
| tert-Butylbenzene | 8.80U | 528 | 541 | 103 | 528 | 528 | 100 | 73-125 | 2.50 | (< 20) |
| Tetrachloroethene | 4.39U | 528 | 518 | 98 | 528 | 510 | 97 | 73-128 | 1.50 | (< 20) |
| Toluene | 29.4 | 528 | 542 | 97 | 528 | 536 | 96 | 77-121 | 1.10 | (< 20) |
| trans-1,2-Dichloroethene | 8.80U | 528 | 476 | 90 | 528 | 467 | 89 | 74-125 | 2.00 | (< 20) |
| trans-1,3-Dichloropropene | 4.39U | 528 | 539 | 102 | 528 | 536 | 102 | 71-130 | 0.52 | (< 20) |
| Trichloroethene | 1.76U | 528 | 520 | 99 | 528 | 513 | 97 | 77-123 | 1.30 | (< 20) |
| Trichlorofluoromethane | 17.6U | 528 | 800 | 152 * | 528 | 734 | 139 | 62-140 | 8.60 | (< 20) |
| Vinyl acetate | 35.2U | 528 | 538 | 102 | 528 | 540 | 102 | 50-151 | 0.42 | (< 20) |
| Vinyl chloride | 0.281U | 528 | 478 | 91 | 528 | 462 | 88 | 56-135 | 3.60 | (< 20) |
| Xylenes (total) | 32.2J | 1580 | 1540 | 95 | 1580 | 1520 | 94 | 78-124 | 1.00 | (< 20) |
| Surrogates | | | | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | | 528 | 494 | 94 | 528 | 495 | 94 | 71-136 | 0.21 | |
| 4-Bromofluorobenzene (surr) | | 879 | 571 | 65 | 879 | 563 | 64 | 55-151 | 1.40 | |
| Toluene-d8 (surr) | | 528 | 520 | 99 | 528 | 522 | 99 | 85-116 | 0.27 | |

Print Date: 08/13/2021 2:33:02PM



Matrix Spike Summary

Original Sample ID: 1625716
MS Sample ID: 1625717 MS
MSD Sample ID: 1625718 MSD

Analysis Date:
Analysis Date: 07/25/2021 15:24
Analysis Date: 07/25/2021 15:40
Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030

Results by SW8260D

| Parameter | Sample | Matrix Spike (%) | | | Spike Duplicate (%) | | | CL | RPD (%) | RPD CL |
|-----------|--------|------------------|--------|---------|---------------------|--------|---------|----|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |

Batch Information

Analytical Batch: VMS20967
Analytical Method: SW8260D
Instrument: VQA 7890/5975 GC/MS
Analyst: S.S
Analytical Date/Time: 7/25/2021 3:24:00PM

Prep Batch: VXX37499
Prep Method: Vol. Extraction SW8260 Field Extracted L
Prep Date/Time: 7/25/2021 6:00:00AM
Prep Initial Wt./Vol.: 71.07g
Prep Extract Vol: 25.00mL

Print Date: 08/13/2021 2:33:02PM



Method Blank

Blank ID: MB for HBN 1823026 [VXX/37501]
Blank Lab ID: 1625819

Matrix: Solid/Soil (Wet Weight)

QC for Samples:

1214357001, 1214357002, 1214357003, 1214357004, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357039, 1214357040, 1214357041

Results by SW8260D-SIM

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| 1,2-Dibromoethane | 0.0625U | 0.125 | 0.0310 | ug/kg |
| Surrogates | | | | |
| 4-Bromofluorobenzene (surr) | 98.4 | 55-151 | | % |
| Toluene-d8 (surr) | 101 | 85-116 | | % |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Instrument: VSA Agilent GC/MS 7890B/5977A
Analyst: JMG
Analytical Date/Time: 7/26/2021 7:27:00PM

Prep Batch: VXX37501
Prep Method: SW5035A
Prep Date/Time: 7/26/2021 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:33:03PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37501]

Blank Spike Lab ID: 1625820

Date Analyzed: 07/26/2021 19:42

Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357039, 1214357040, 1214357041

Results by SW8260D-SIM

Blank Spike (ug/kg)

| Parameter | Spike | Result | Rec (%) | CL |
|-------------------|-------|--------|---------|------------|
| 1,2-Dibromoethane | 5 | 4.94 | 99 | (78-122) |

Surrogates

| | | | | |
|-----------------------------|-----|--|-----|------------|
| 4-Bromofluorobenzene (surr) | 750 | | 98 | (55-151) |
| Toluene-d8 (surr) | 750 | | 101 | (85-116) |

Batch Information

Analytical Batch: VMS20968

Analytical Method: SW8260D-SIM

Instrument: VSA Agilent GC/MS 7890B/5977A

Analyst: JMG

Prep Batch: VXX37501

Prep Method: SW5035A

Prep Date/Time: 07/26/2021 06:00

Spike Init Wt./Vol.: 5 ug/kg Extract Vol: 25 mL

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/13/2021 2:33:06PM



Matrix Spike Summary

Original Sample ID: 1214357030
MS Sample ID: 1625822 MS
MSD Sample ID: 1625823 MSD

Analysis Date: 07/27/2021 0:46
Analysis Date: 07/26/2021 19:57
Analysis Date: 07/26/2021 20:12
Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357039, 1214357040, 1214357041

Results by SW8260D-SIM

| Parameter | Sample | Matrix Spike (ug/kg) | | | Spike Duplicate (ug/kg) | | | CL | RPD (%) | RPD CL |
|-----------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1,2-Dibromoethane | 0.125U | 4.99 | 5.13 | 103 | 4.99 | 5.14 | 103 | 78-122 | 0.24 | (< 20) |
| Surrogates | | | | | | | | | | |
| 4-Bromofluorobenzene (surr) | | 918 | 947 | 103 | 918 | 925 | 101 | 55-151 | 2.30 | |
| Toluene-d8 (surr) | | 750 | 759 | 101 | 750 | 754 | 101 | 85-116 | 0.52 | |

Batch Information

Analytical Batch: VMS20968
Analytical Method: SW8260D-SIM
Instrument: VSA Agilent GC/MS 7890B/5977A
Analyst: JMG
Analytical Date/Time: 7/26/2021 7:57:00PM

Prep Batch: VXX37501
Prep Method: 8260SIM (S) SW5035 Prep
Prep Date/Time: 7/26/2021 6:00:00AM
Prep Initial Wt./Vol.: 77.08g
Prep Extract Vol: 34.00mL

Print Date: 08/13/2021 2:33:07PM



Method Blank

Blank ID: MB for HBN 1823107 [VXX/37511]

Blank Lab ID: 1626128

QC for Samples:

1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Matrix: Soil/Solid (dry weight)

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| 1,1,1,2-Tetrachloroethane | 10.0U | 20.0 | 6.20 | ug/kg |
| 1,1,1-Trichloroethane | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,1,2,2-Tetrachloroethane | 1.00U | 2.00 | 0.620 | ug/kg |
| 1,1,2-Trichloroethane | 0.400U | 0.800 | 0.250 | ug/kg |
| 1,1-Dichloroethane | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,1-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,1-Dichloropropene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,2,3-Trichlorobenzene | 25.0U | 50.0 | 15.0 | ug/kg |
| 1,2,3-Trichloropropane | 1.00U | 2.00 | 0.620 | ug/kg |
| 1,2,4-Trichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,2,4-Trimethylbenzene | 25.0U | 50.0 | 15.0 | ug/kg |
| 1,2-Dibromo-3-chloropropane | 50.0U | 100 | 31.0 | ug/kg |
| 1,2-Dibromoethane | 0.500U | 1.00 | 0.400 | ug/kg |
| 1,2-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,2-Dichloroethane | 1.00U | 2.00 | 0.700 | ug/kg |
| 1,2-Dichloropropane | 5.00U | 10.0 | 3.10 | ug/kg |
| 1,3,5-Trimethylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,3-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 1,3-Dichloropropane | 5.00U | 10.0 | 3.10 | ug/kg |
| 1,4-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| 2,2-Dichloropropane | 12.5U | 25.0 | 7.80 | ug/kg |
| 2-Butanone (MEK) | 125U | 250 | 78.0 | ug/kg |
| 2-Chlorotoluene | 12.5U | 25.0 | 7.80 | ug/kg |
| 2-Hexanone | 50.0U | 100 | 31.0 | ug/kg |
| 4-Chlorotoluene | 12.5U | 25.0 | 7.80 | ug/kg |
| 4-Isopropyltoluene | 50.0U | 100 | 25.0 | ug/kg |
| 4-Methyl-2-pentanone (MIBK) | 125U | 250 | 78.0 | ug/kg |
| Acetone | 125U | 250 | 78.0 | ug/kg |
| Benzene | 6.25U | 12.5 | 3.90 | ug/kg |
| Bromobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Bromochloromethane | 12.5U | 25.0 | 7.80 | ug/kg |
| Bromodichloromethane | 1.00U | 2.00 | 0.620 | ug/kg |
| Bromoform | 12.5U | 25.0 | 7.80 | ug/kg |
| Bromomethane | 10.0U | 20.0 | 6.20 | ug/kg |
| Carbon disulfide | 50.0U | 100 | 31.0 | ug/kg |
| Carbon tetrachloride | 6.25U | 12.5 | 3.90 | ug/kg |
| Chlorobenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Chloroethane | 100U | 200 | 62.0 | ug/kg |

Print Date: 08/13/2021 2:33:09PM



Method Blank

Blank ID: MB for HBN 1823107 [VXX/37511]
Blank Lab ID: 1626128

Matrix: Soil/Solid (dry weight)

QC for Samples:
1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------------------|----------------|---------------|-----------|--------------|
| Chloroform | 2.00U | 4.00 | 1.00 | ug/kg |
| Chloromethane | 12.5U | 25.0 | 7.80 | ug/kg |
| cis-1,2-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/kg |
| cis-1,3-Dichloropropene | 6.25U | 12.5 | 3.90 | ug/kg |
| Dibromochloromethane | 2.50U | 5.00 | 1.50 | ug/kg |
| Dibromomethane | 12.5U | 25.0 | 7.80 | ug/kg |
| Dichlorodifluoromethane | 25.0U | 50.0 | 15.0 | ug/kg |
| Ethylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Freon-113 | 50.0U | 100 | 31.0 | ug/kg |
| Hexachlorobutadiene | 10.0U | 20.0 | 6.20 | ug/kg |
| Isopropylbenzene (Cumene) | 12.5U | 25.0 | 7.80 | ug/kg |
| Methylene chloride | 50.0U | 100 | 31.0 | ug/kg |
| Methyl-t-butyl ether | 50.0U | 100 | 31.0 | ug/kg |
| Naphthalene | 12.5U | 25.0 | 7.80 | ug/kg |
| n-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| n-Propylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| o-Xylene | 12.5U | 25.0 | 7.80 | ug/kg |
| P & M -Xylene | 25.0U | 50.0 | 15.0 | ug/kg |
| sec-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Styrene | 12.5U | 25.0 | 7.80 | ug/kg |
| tert-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/kg |
| Tetrachloroethene | 6.25U | 12.5 | 3.90 | ug/kg |
| Toluene | 12.5U | 25.0 | 7.80 | ug/kg |
| trans-1,2-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/kg |
| trans-1,3-Dichloropropene | 6.25U | 12.5 | 3.90 | ug/kg |
| Trichloroethene | 2.50U | 5.00 | 1.50 | ug/kg |
| Trichlorofluoromethane | 25.0U | 50.0 | 15.0 | ug/kg |
| Vinyl acetate | 50.0U | 100 | 31.0 | ug/kg |
| Vinyl chloride | 0.400U | 0.800 | 0.250 | ug/kg |
| Xylenes (total) | 37.5U | 75.0 | 22.8 | ug/kg |
| Surrogates | | | | |
| 1,2-Dichloroethane-D4 (surr) | 109 | 71-136 | | % |
| 4-Bromofluorobenzene (surr) | 102 | 55-151 | | % |
| Toluene-d8 (surr) | 97.1 | 85-116 | | % |

Print Date: 08/13/2021 2:33:09PM



Method Blank

Blank ID: MB for HBN 1823107 [VXX/37511]
Blank Lab ID: 1626128

Matrix: Soil/Solid (dry weight)

QC for Samples:
1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW8260D

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
|------------------|----------------|---------------|-----------|--------------|

Batch Information

Analytical Batch: VMS20975
Analytical Method: SW8260D
Instrument: VQA 7890/5975 GC/MS
Analyst: S.S
Analytical Date/Time: 7/27/2021 10:04:00AM

Prep Batch: VXX37511
Prep Method: SW5035A
Prep Date/Time: 7/27/2021 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:33:09PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37511]

Blank Spike Lab ID: 1626129

Date Analyzed: 07/27/2021 10:20

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW8260D

| Parameter | Blank Spike (ug/kg) | | | CL |
|-----------------------------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| 1,1,1,2-Tetrachloroethane | 750 | 783 | 104 | (78-125) |
| 1,1,1-Trichloroethane | 750 | 681 | 91 | (73-130) |
| 1,1,2,2-Tetrachloroethane | 750 | 835 | 111 | (70-124) |
| 1,1,2-Trichloroethane | 750 | 828 | 110 | (78-121) |
| 1,1-Dichloroethane | 750 | 672 | 90 | (76-125) |
| 1,1-Dichloroethene | 750 | 636 | 85 | (70-131) |
| 1,1-Dichloropropene | 750 | 703 | 94 | (76-125) |
| 1,2,3-Trichlorobenzene | 750 | 809 | 108 | (66-130) |
| 1,2,3-Trichloropropane | 750 | 799 | 107 | (73-125) |
| 1,2,4-Trichlorobenzene | 750 | 815 | 109 | (67-129) |
| 1,2,4-Trimethylbenzene | 750 | 803 | 107 | (75-123) |
| 1,2-Dibromo-3-chloropropane | 750 | 806 | 107 | (61-132) |
| 1,2-Dibromoethane | 750 | 826 | 110 | (78-122) |
| 1,2-Dichlorobenzene | 750 | 784 | 105 | (78-121) |
| 1,2-Dichloroethane | 750 | 665 | 89 | (73-128) |
| 1,2-Dichloropropane | 750 | 744 | 99 | (76-123) |
| 1,3,5-Trimethylbenzene | 750 | 812 | 108 | (73-124) |
| 1,3-Dichlorobenzene | 750 | 784 | 105 | (77-121) |
| 1,3-Dichloropropane | 750 | 807 | 108 | (77-121) |
| 1,4-Dichlorobenzene | 750 | 795 | 106 | (75-120) |
| 2,2-Dichloropropane | 750 | 696 | 93 | (67-133) |
| 2-Butanone (MEK) | 2250 | 2120 | 94 | (51-148) |
| 2-Chlorotoluene | 750 | 793 | 106 | (75-122) |
| 2-Hexanone | 2250 | 2430 | 108 | (53-145) |
| 4-Chlorotoluene | 750 | 794 | 106 | (72-124) |
| 4-Isopropyltoluene | 750 | 796 | 106 | (73-127) |
| 4-Methyl-2-pentanone (MIBK) | 2250 | 2260 | 101 | (65-135) |
| Acetone | 2250 | 2110 | 94 | (36-164) |
| Benzene | 750 | 728 | 97 | (77-121) |
| Bromobenzene | 750 | 807 | 108 | (78-121) |
| Bromochloromethane | 750 | 684 | 91 | (78-125) |
| Bromodichloromethane | 750 | 725 | 97 | (75-127) |
| Bromoform | 750 | 789 | 105 | (67-132) |
| Bromomethane | 750 | 652 | 87 | (53-143) |

Print Date: 08/13/2021 2:33:11PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37511]

Blank Spike Lab ID: 1626129

Date Analyzed: 07/27/2021 10:20

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW8260D

| Parameter | Blank Spike (ug/kg) | | | CL |
|---------------------------|---------------------|--------|---------|----------|
| | Spike | Result | Rec (%) | |
| Carbon disulfide | 1130 | 919 | 82 | (63-132) |
| Carbon tetrachloride | 750 | 681 | 91 | (70-135) |
| Chlorobenzene | 750 | 736 | 98 | (79-120) |
| Chloroethane | 750 | 723 | 96 | (59-139) |
| Chloroform | 750 | 700 | 93 | (78-123) |
| Chloromethane | 750 | 658 | 88 | (50-136) |
| cis-1,2-Dichloroethene | 750 | 694 | 93 | (77-123) |
| cis-1,3-Dichloropropene | 750 | 782 | 104 | (74-126) |
| Dibromochloromethane | 750 | 828 | 110 | (74-126) |
| Dibromomethane | 750 | 711 | 95 | (78-125) |
| Dichlorodifluoromethane | 750 | 607 | 81 | (29-149) |
| Ethylbenzene | 750 | 717 | 96 | (76-122) |
| Freon-113 | 1130 | 928 | 82 | (66-136) |
| Hexachlorobutadiene | 750 | 799 | 106 | (61-135) |
| Isopropylbenzene (Cumene) | 750 | 746 | 100 | (68-134) |
| Methylene chloride | 750 | 710 | 95 | (70-128) |
| Methyl-t-butyl ether | 1130 | 1030 | 92 | (73-125) |
| Naphthalene | 750 | 819 | 109 | (62-129) |
| n-Butylbenzene | 750 | 799 | 107 | (70-128) |
| n-Propylbenzene | 750 | 793 | 106 | (73-125) |
| o-Xylene | 750 | 743 | 99 | (77-123) |
| P & M -Xylene | 1500 | 1420 | 95 | (77-124) |
| sec-Butylbenzene | 750 | 777 | 104 | (73-126) |
| Styrene | 750 | 755 | 101 | (76-124) |
| tert-Butylbenzene | 750 | 791 | 105 | (73-125) |
| Tetrachloroethene | 750 | 745 | 99 | (73-128) |
| Toluene | 750 | 728 | 97 | (77-121) |
| trans-1,2-Dichloroethene | 750 | 675 | 90 | (74-125) |
| trans-1,3-Dichloropropene | 750 | 760 | 101 | (71-130) |
| Trichloroethene | 750 | 741 | 99 | (77-123) |
| Trichlorofluoromethane | 750 | 858 | 114 | (62-140) |
| Vinyl acetate | 750 | 775 | 103 | (50-151) |
| Vinyl chloride | 750 | 659 | 88 | (56-135) |
| Xylenes (total) | 2250 | 2170 | 96 | (78-124) |

Print Date: 08/13/2021 2:33:11PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37511]

Blank Spike Lab ID: 1626129

Date Analyzed: 07/27/2021 10:20

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW8260D

| Parameter | Blank Spike (ug/kg) | | | CL |
|------------------------------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| Surrogates | | | | |
| 1,2-Dichloroethane-D4 (surr) | 750 | 93 | | (71-136) |
| 4-Bromofluorobenzene (surr) | 750 | 97 | | (55-151) |
| Toluene-d8 (surr) | 750 | 99 | | (85-116) |

Batch Information

Analytical Batch: VMS20975

Analytical Method: SW8260D

Instrument: VQA 7890/5975 GC/MS

Analyst: S.S

Prep Batch: VXX37511

Prep Method: SW5035A

Prep Date/Time: 07/27/2021 06:00

Spike Init Wt./Vol.: 750 ug/kg Extract Vol: 25 mL

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/13/2021 2:33:11PM



Matrix Spike Summary

Original Sample ID: 1626130
 MS Sample ID: 1626131 MS
 MSD Sample ID: 1626132 MSD

Analysis Date: 07/27/2021 14:34
 Analysis Date: 07/27/2021 12:22
 Analysis Date: 07/27/2021 12:39
 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW8260D

| Parameter | Sample | Matrix Spike (ug/kg) | | | Spike Duplicate (ug/kg) | | | CL | RPD (%) | RPD CL |
|-----------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1,1,1,2-Tetrachloroethane | 10.4U | 779 | 799 | 103 | 779 | 834 | 107 | 78-125 | 4.30 | (< 20) |
| 1,1,1-Trichloroethane | 13.0U | 779 | 733 | 94 | 779 | 745 | 96 | 73-130 | 1.70 | (< 20) |
| 1,1,2,2-Tetrachloroethane | 1.04U | 779 | 909 | 117 | 779 | 929 | 119 | 70-124 | 2.20 | (< 20) |
| 1,1,2-Trichloroethane | 0.415U | 779 | 893 | 115 | 779 | 939 | 121 | 78-121 | 5.00 | (< 20) |
| 1,1-Dichloroethane | 13.0U | 779 | 702 | 90 | 779 | 719 | 92 | 76-125 | 2.50 | (< 20) |
| 1,1-Dichloroethene | 13.0U | 779 | 694 | 89 | 779 | 698 | 90 | 70-131 | 0.60 | (< 20) |
| 1,1-Dichloropropene | 13.0U | 779 | 739 | 95 | 779 | 751 | 96 | 76-125 | 1.60 | (< 20) |
| 1,2,3-Trichlorobenzene | 25.9U | 779 | 874 | 112 | 779 | 972 | 125 | 66-130 | 10.70 | (< 20) |
| 1,2,3-Trichloropropane | 1.04U | 779 | 863 | 111 | 779 | 827 | 106 | 73-125 | 4.30 | (< 20) |
| 1,2,4-Trichlorobenzene | 13.0U | 779 | 892 | 115 | 779 | 959 | 123 | 67-129 | 7.20 | (< 20) |
| 1,2,4-Trimethylbenzene | 25.9U | 779 | 850 | 109 | 779 | 853 | 110 | 75-123 | 0.27 | (< 20) |
| 1,2-Dibromo-3-chloropropane | 52.0U | 779 | 853 | 110 | 779 | 893 | 115 | 61-132 | 4.60 | (< 20) |
| 1,2-Dibromoethane | 0.520U | 779 | 890 | 114 | 779 | 939 | 121 | 78-122 | 5.30 | (< 20) |
| 1,2-Dichlorobenzene | 13.0U | 779 | 814 | 105 | 779 | 834 | 107 | 78-121 | 2.40 | (< 20) |
| 1,2-Dichloroethane | 1.04U | 779 | 705 | 91 | 779 | 728 | 94 | 73-128 | 3.20 | (< 20) |
| 1,2-Dichloropropane | 5.20U | 779 | 770 | 99 | 779 | 793 | 102 | 76-123 | 3.00 | (< 20) |
| 1,3,5-Trimethylbenzene | 13.0U | 779 | 853 | 110 | 779 | 814 | 105 | 73-124 | 4.70 | (< 20) |
| 1,3-Dichlorobenzene | 13.0U | 779 | 815 | 105 | 779 | 825 | 106 | 77-121 | 1.20 | (< 20) |
| 1,3-Dichloropropane | 5.20U | 779 | 854 | 110 | 779 | 901 | 116 | 77-121 | 5.30 | (< 20) |
| 1,4-Dichlorobenzene | 13.0U | 779 | 820 | 105 | 779 | 823 | 106 | 75-120 | 0.25 | (< 20) |
| 2,2-Dichloropropane | 13.0U | 779 | 734 | 94 | 779 | 749 | 96 | 67-133 | 2.00 | (< 20) |
| 2-Butanone (MEK) | 130U | 2340 | 2260 | 97 | 2340 | 2410 | 103 | 51-148 | 6.60 | (< 20) |
| 2-Chlorotoluene | 13.0U | 779 | 813 | 104 | 779 | 817 | 105 | 75-122 | 0.48 | (< 20) |
| 2-Hexanone | 52.0U | 2340 | 2630 | 113 | 2340 | 2830 | 121 | 53-145 | 7.40 | (< 20) |
| 4-Chlorotoluene | 13.0U | 779 | 817 | 105 | 779 | 803 | 103 | 72-124 | 1.80 | (< 20) |
| 4-Isopropyltoluene | 52.0U | 779 | 940 | 121 | 779 | 936 | 120 | 73-127 | 0.50 | (< 20) |
| 4-Methyl-2-pentanone (MIBK) | 130U | 2340 | 2400 | 103 | 2340 | 2580 | 111 | 65-135 | 7.20 | (< 20) |
| Acetone | 130U | 2340 | 2270 | 97 | 2340 | 2410 | 103 | 36-164 | 5.70 | (< 20) |
| Benzene | 6.50U | 779 | 744 | 96 | 779 | 757 | 97 | 77-121 | 1.80 | (< 20) |
| Bromobenzene | 13.0U | 779 | 832 | 107 | 779 | 836 | 107 | 78-121 | 0.50 | (< 20) |
| Bromochloromethane | 13.0U | 779 | 712 | 92 | 779 | 728 | 94 | 78-125 | 2.20 | (< 20) |
| Bromodichloromethane | 1.04U | 779 | 764 | 98 | 779 | 787 | 101 | 75-127 | 3.00 | (< 20) |
| Bromoform | 13.0U | 779 | 861 | 111 | 779 | 910 | 117 | 67-132 | 5.60 | (< 20) |
| Bromomethane | 10.4U | 779 | 743 | 95 | 779 | 760 | 98 | 53-143 | 2.30 | (< 20) |
| Carbon disulfide | 52.0U | 1170 | 1020 | 87 | 1170 | 1020 | 88 | 63-132 | 0.76 | (< 20) |
| Carbon tetrachloride | 6.50U | 779 | 737 | 95 | 779 | 743 | 96 | 70-135 | 0.88 | (< 20) |
| Chlorobenzene | 13.0U | 779 | 770 | 99 | 779 | 796 | 102 | 79-120 | 3.30 | (< 20) |

Print Date: 08/13/2021 2:33:13PM



Matrix Spike Summary

Original Sample ID: 1626130
 MS Sample ID: 1626131 MS
 MSD Sample ID: 1626132 MSD

Analysis Date: 07/27/2021 14:34
 Analysis Date: 07/27/2021 12:22
 Analysis Date: 07/27/2021 12:39
 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW8260D

| Parameter | Sample | Matrix Spike (ug/kg) | | | Spike Duplicate (ug/kg) | | | CL | RPD (%) | RPD CL |
|------------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Chloroethane | 104U | 779 | 801 | 103 | 779 | 791 | 102 | 59-139 | 1.30 | (< 20) |
| Chloroform | 2.08U | 779 | 734 | 94 | 779 | 752 | 97 | 78-123 | 2.40 | (< 20) |
| Chloromethane | 13.0U | 779 | 683 | 88 | 779 | 691 | 89 | 50-136 | 1.30 | (< 20) |
| cis-1,2-Dichloroethene | 13.0U | 779 | 675 | 87 | 779 | 725 | 93 | 77-123 | 7.20 | (< 20) |
| cis-1,3-Dichloropropene | 6.50U | 779 | 806 | 104 | 779 | 845 | 109 | 74-126 | 4.70 | (< 20) |
| Dibromochloromethane | 2.60U | 779 | 901 | 116 | 779 | 944 | 121 | 74-126 | 4.70 | (< 20) |
| Dibromomethane | 13.0U | 779 | 749 | 96 | 779 | 774 | 100 | 78-125 | 3.30 | (< 20) |
| Dichlorodifluoromethane | 25.9U | 779 | 579 | 74 | 779 | 581 | 75 | 29-149 | 0.45 | (< 20) |
| Ethylbenzene | 13.0U | 779 | 739 | 95 | 779 | 762 | 98 | 76-122 | 3.00 | (< 20) |
| Freon-113 | 52.0U | 1170 | 1030 | 88 | 1170 | 1040 | 89 | 66-136 | 0.75 | (< 20) |
| Hexachlorobutadiene | 10.4U | 779 | 2070 | 266 * | 779 | 2160 | 278 * | 61-135 | 4.30 | (< 20) |
| Isopropylbenzene (Cumene) | 13.0U | 779 | 770 | 99 | 779 | 786 | 101 | 68-134 | 2.10 | (< 20) |
| Methylene chloride | 52.0U | 779 | 706 | 91 | 779 | 714 | 92 | 70-128 | 1.20 | (< 20) |
| Methyl-t-butyl ether | 52.0U | 1170 | 1060 | 91 | 1170 | 1120 | 96 | 73-125 | 5.40 | (< 20) |
| Naphthalene | 13.0U | 779 | 844 | 108 | 779 | 934 | 120 | 62-129 | 10.10 | (< 20) |
| n-Butylbenzene | 13.0U | 779 | 1090 | 140 * | 779 | 1090 | 140 * | 70-128 | 0.02 | (< 20) |
| n-Propylbenzene | 13.0U | 779 | 843 | 108 | 779 | 841 | 108 | 73-125 | 0.25 | (< 20) |
| o-Xylene | 13.0U | 779 | 760 | 98 | 779 | 776 | 100 | 77-123 | 2.10 | (< 20) |
| P & M -Xylene | 25.9U | 1560 | 1460 | 94 | 1560 | 1500 | 96 | 77-124 | 2.20 | (< 20) |
| sec-Butylbenzene | 13.0U | 779 | 940 | 121 | 779 | 926 | 119 | 73-126 | 1.50 | (< 20) |
| Styrene | 13.0U | 779 | 774 | 99 | 779 | 802 | 103 | 76-124 | 3.60 | (< 20) |
| tert-Butylbenzene | 13.0U | 779 | 874 | 112 | 779 | 865 | 111 | 73-125 | 1.10 | (< 20) |
| Tetrachloroethene | 6.50U | 779 | 798 | 102 | 779 | 817 | 105 | 73-128 | 2.40 | (< 20) |
| Toluene | 13.0U | 779 | 760 | 98 | 779 | 787 | 101 | 77-121 | 3.50 | (< 20) |
| trans-1,2-Dichloroethene | 13.0U | 779 | 717 | 92 | 779 | 731 | 94 | 74-125 | 1.90 | (< 20) |
| trans-1,3-Dichloropropene | 6.50U | 779 | 824 | 106 | 779 | 863 | 111 | 71-130 | 4.60 | (< 20) |
| Trichloroethene | 2.60U | 779 | 779 | 100 | 779 | 795 | 102 | 77-123 | 2.00 | (< 20) |
| Trichlorofluoromethane | 25.9U | 779 | 1070 | 138 | 779 | 962 | 124 | 62-140 | 10.80 | (< 20) |
| Vinyl acetate | 52.0U | 779 | 826 | 106 | 779 | 872 | 112 | 50-151 | 5.30 | (< 20) |
| Vinyl chloride | 0.415U | 779 | 739 | 95 | 779 | 741 | 95 | 56-135 | 0.28 | (< 20) |
| Xylenes (total) | 39.0U | 2340 | 2220 | 95 | 2340 | 2270 | 97 | 78-124 | 2.20 | (< 20) |
| Surrogates | | | | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | | 779 | 755 | 97 | 779 | 757 | 97 | 71-136 | 0.21 | |
| 4-Bromofluorobenzene (surr) | | 1300 | 1300 | 100 | 1300 | 1310 | 101 | 55-151 | 0.88 | |
| Toluene-d8 (surr) | | 779 | 777 | 100 | 779 | 786 | 101 | 85-116 | 1.20 | |

Print Date: 08/13/2021 2:33:13PM



Matrix Spike Summary

Original Sample ID: 1626130
MS Sample ID: 1626131 MS
MSD Sample ID: 1626132 MSD

Analysis Date:
Analysis Date: 07/27/2021 12:22
Analysis Date: 07/27/2021 12:39
Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW8260D

| Parameter | Sample | Matrix Spike (%) | | | Spike Duplicate (%) | | | CL | RPD (%) | RPD CL |
|-----------|--------|------------------|--------|---------|---------------------|--------|---------|----|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |

Batch Information

Analytical Batch: VMS20975
Analytical Method: SW8260D
Instrument: VQA 7890/5975 GC/MS
Analyst: S.S
Analytical Date/Time: 7/27/2021 12:22:00PM

Prep Batch: VXX37511
Prep Method: Vol. Extraction SW8260 Field Extracted L
Prep Date/Time: 7/27/2021 6:00:00AM
Prep Initial Wt./Vol.: 48.16g
Prep Extract Vol: 25.00mL

Print Date: 08/13/2021 2:33:13PM



Method Blank

Blank ID: MB for HBN 1823173 [VXX/37520]
Blank Lab ID: 1626444

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357001, 1214357002, 1214357003, 1214357004, 1214357005, 1214357006, 1214357007

Results by AK101

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| Gasoline Range Organics | 1.32J | 2.50 | 0.750 | mg/kg |
| Surrogates | | | | |
| 4-Bromofluorobenzene (surr) | 85.3 | 50-150 | | % |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: MDT
Analytical Date/Time: 7/28/2021 3:52:00PM

Prep Batch: VXX37520
Prep Method: SW5035A
Prep Date/Time: 7/28/2021 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:33:14PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37520]
Blank Spike Lab ID: 1626445
Date Analyzed: 07/28/2021 15:17

Spike Duplicate ID: LCSD for HBN 1214357 [VXX37520]
Spike Duplicate Lab ID: 1626446
Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357005, 1214357006, 1214357007

Results by AK101

| Parameter | Blank Spike (mg/kg) | | | Spike Duplicate (mg/kg) | | | CL | RPD (%) | RPD CL |
|-------------------------|---------------------|--------|---------|-------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Gasoline Range Organics | 12.5 | 12.6 | 101 | 12.5 | 12.5 | 100 | (60-120) | 0.59 | (< 20) |

Surrogates

| | | | | | | | | | |
|-----------------------------|------|--|----|------|--|----|------------|------|--|
| 4-Bromofluorobenzene (surr) | 1.25 | | 84 | 1.25 | | 91 | (50-150) | 7.80 | |
|-----------------------------|------|--|----|------|--|----|------------|------|--|

Batch Information

Analytical Batch: **VFC15737**
Analytical Method: **AK101**
Instrument: **Agilent 7890A PID/FID**
Analyst: **MDT**

Prep Batch: **VXX37520**
Prep Method: **SW5035A**
Prep Date/Time: **07/28/2021 06:00**
Spike Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL

Print Date: 08/13/2021 2:33:17PM



Method Blank

Blank ID: MB for HBN 1823175 [VXX/37521]
Blank Lab ID: 1626452

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357008, 1214357009, 1214357010, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015, 1214357016, 1214357017, 1214357018, 1214357019, 1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027

Results by AK101

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| Gasoline Range Organics | 1.17J | 2.50 | 0.750 | mg/kg |
| Surrogates | | | | |
| 4-Bromofluorobenzene (surr) | 85.4 | 50-150 | | % |

Batch Information

Analytical Batch: VFC15737
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: MDT
Analytical Date/Time: 7/29/2021 12:29:00AM

Prep Batch: VXX37521
Prep Method: SW5035A
Prep Date/Time: 7/28/2021 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:33:19PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37521]
 Blank Spike Lab ID: 1626453
 Date Analyzed: 07/28/2021 23:54

Spike Duplicate ID: LCSD for HBN 1214357 [VXX37521]
 Spike Duplicate Lab ID: 1626454
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357008, 1214357009, 1214357010, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015, 1214357016, 1214357017, 1214357018, 1214357019, 1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027

Results by AK101

| Parameter | Blank Spike (mg/kg) | | | Spike Duplicate (mg/kg) | | | CL | RPD (%) | RPD CL |
|-------------------------|---------------------|--------|---------|-------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Gasoline Range Organics | 12.5 | 12.5 | 100 | 12.5 | 12.1 | 97 | (60-120) | 3.20 | (< 20) |

Surrogates

| | | | | | | | | | |
|-----------------------------|------|--|----|------|--|----|------------|------|--|
| 4-Bromofluorobenzene (surr) | 1.25 | | 90 | 1.25 | | 89 | (50-150) | 0.56 | |
|-----------------------------|------|--|----|------|--|----|------------|------|--|

Batch Information

Analytical Batch: **VFC15737**
 Analytical Method: **AK101**
 Instrument: **Agilent 7890A PID/FID**
 Analyst: **MDT**

Prep Batch: **VXX37521**
 Prep Method: **SW5035A**
 Prep Date/Time: **07/28/2021 06:00**
 Spike Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL
 Dupe Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL

Print Date: 08/13/2021 2:33:21PM



Method Blank

Blank ID: MB for HBN 1823193 [VXX/37524]
Blank Lab ID: 1626503

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035, 1214357039, 1214357040, 1214357041

Results by AK101

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| Gasoline Range Organics | 1.07J | 2.50 | 0.750 | mg/kg |
| Surrogates | | | | |
| 4-Bromofluorobenzene (surr) | 106 | 50-150 | | % |

Batch Information

Analytical Batch: VFC15738
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: MDT
Analytical Date/Time: 7/28/2021 1:57:00PM

Prep Batch: VXX37524
Prep Method: SW5035A
Prep Date/Time: 7/28/2021 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:33:24PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37524]
Blank Spike Lab ID: 1626504
Date Analyzed: 07/28/2021 13:21

Spike Duplicate ID: LCSD for HBN 1214357 [VXX37524]
Spike Duplicate Lab ID: 1626505
Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035, 1214357039, 1214357040, 1214357041

Results by AK101

| Parameter | Blank Spike (mg/kg) | | | Spike Duplicate (mg/kg) | | | CL | RPD (%) | RPD CL |
|-------------------------|---------------------|--------|---------|-------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Gasoline Range Organics | 12.5 | 13.8 | 110 | 12.5 | 13.5 | 108 | (60-120) | 2.30 | (< 20) |

Surrogates

| | | | | | | | | | |
|-----------------------------|------|--|-----|------|--|-----|------------|------|--|
| 4-Bromofluorobenzene (surr) | 1.25 | | 113 | 1.25 | | 113 | (50-150) | 0.48 | |
|-----------------------------|------|--|-----|------|--|-----|------------|------|--|

Batch Information

Analytical Batch: VFC15738
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: MDT

Prep Batch: VXX37524
Prep Method: SW5035A
Prep Date/Time: 07/28/2021 06:00
Spike Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL

Print Date: 08/13/2021 2:33:27PM



Method Blank

Blank ID: MB for HBN 1823236 [VXX/37530]
Blank Lab ID: 1626732

Matrix: Solid/Soil (Wet Weight)

QC for Samples:
1214357035

Results by SW8260D-SIM

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| 1,2-Dibromoethane | 0.0625U | 0.125 | 0.0310 | ug/kg |
| Surrogates | | | | |
| 4-Bromofluorobenzene (surr) | 109 | 55-151 | | % |
| Toluene-d8 (surr) | 99 | 85-116 | | % |

Batch Information

Analytical Batch: VMS20985
Analytical Method: SW8260D-SIM
Instrument: VSA Agilent GC/MS 7890B/5977A
Analyst: JMG
Analytical Date/Time: 7/29/2021 10:55:00AM

Prep Batch: VXX37530
Prep Method: SW5035A
Prep Date/Time: 7/29/2021 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 08/13/2021 2:33:29PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [VXX37530]
Blank Spike Lab ID: 1626733
Date Analyzed: 07/29/2021 11:10

Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357035

Results by SW8260D-SIM

| Parameter | Blank Spike (ug/kg) | | | CL |
|-----------------------------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| 1,2-Dibromoethane | 5 | 5.18 | 104 | (78-122) |
| Surrogates | | | | |
| 4-Bromofluorobenzene (surr) | 750 | | 105 | (55-151) |
| Toluene-d8 (surr) | 750 | | 99 | (85-116) |

Batch Information

Analytical Batch: VMS20985
Analytical Method: SW8260D-SIM
Instrument: VSA Agilent GC/MS 7890B/5977A
Analyst: JMG

Prep Batch: VXX37530
Prep Method: SW5035A
Prep Date/Time: 07/29/2021 06:00
Spike Init Wt./Vol.: 5 ug/kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/13/2021 2:33:31PM



Matrix Spike Summary

Original Sample ID: 1626738
MS Sample ID: 1626739 MS
MSD Sample ID: 1626740 MSD

Analysis Date: 07/29/2021 18:14
Analysis Date: 07/29/2021 13:11
Analysis Date: 07/29/2021 13:26
Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1214357035

Results by SW8260D-SIM

| Parameter | Sample | Matrix Spike (ug/kg) | | | Spike Duplicate (ug/kg) | | | CL | RPD (%) | RPD CL |
|-----------------------------|---------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1,2-Dibromoethane | 0.0810U | 6.50 | 6.73 | 104 | 6.50 | 6.95 | 107 | 78-122 | 3.20 | (< 20) |
| Surrogates | | | | | | | | | | |
| 4-Bromofluorobenzene (surr) | | 1260 | 1220 | 97 | 1260 | 1200 | 96 | 55-151 | 1.70 | |
| Toluene-d8 (surr) | | 974 | 974 | 100 | 974 | 980 | 101 | 85-116 | 0.63 | |

Batch Information

Analytical Batch: VMS20985
Analytical Method: SW8260D-SIM
Instrument: VSA Agilent GC/MS 7890B/5977A
Analyst: JMG
Analytical Date/Time: 7/29/2021 1:11:00PM

Prep Batch: VXX37530
Prep Method: 8260SIM (S) SW5035 Prep
Prep Date/Time: 7/29/2021 6:00:00AM
Prep Initial Wt./Vol.: 49.77g
Prep Extract Vol: 32.34mL

Print Date: 08/13/2021 2:33:32PM



Method Blank

Blank ID: MB for HBN 1822623 [XXX/45197]
Blank Lab ID: 1624282

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357001, 1214357002, 1214357003, 1214357004, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026,
1214357027, 1214357028, 1214357029

Results by SW8082A

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
| Aroclor-1016 | 25.0U | 50.0 | 12.5 | ug/kg |
| Aroclor-1221 | 50.0U | 100 | 25.0 | ug/kg |
| Aroclor-1232 | 25.0U | 50.0 | 12.5 | ug/kg |
| Aroclor-1242 | 25.0U | 50.0 | 12.5 | ug/kg |
| Aroclor-1248 | 25.0U | 50.0 | 12.5 | ug/kg |
| Aroclor-1254 | 25.0U | 50.0 | 12.5 | ug/kg |
| Aroclor-1260 | 25.0U | 50.0 | 12.5 | ug/kg |

Surrogates

| | | | |
|---------------------------|-----|--------|---|
| Decachlorobiphenyl (surr) | 107 | 60-125 | % |
|---------------------------|-----|--------|---|

Batch Information

Analytical Batch: XGC10936
Analytical Method: SW8082A
Instrument: Agilent 7890B GC ECD SW F
Analyst: CDM
Analytical Date/Time: 7/20/2021 9:00:00PM

Prep Batch: XXX45197
Prep Method: SW3550C
Prep Date/Time: 7/20/2021 12:02:55PM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:33:33PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [XXX45197]

Blank Spike Lab ID: 1624283

Date Analyzed: 07/20/2021 21:10

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029

Results by SW8082A

| Parameter | Blank Spike (ug/kg) | | | CL |
|---------------------------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| Aroclor-1016 | 222 | 133 | 60 | (47-134) |
| Aroclor-1260 | 222 | 187 | 84 | (53-140) |
| Surrogates | | | | |
| Decachlorobiphenyl (surr) | 88.9 | | 98 | (60-125) |

Batch Information

Analytical Batch: XGC10936

Analytical Method: SW8082A

Instrument: Agilent 7890B GC ECD SW F

Analyst: CDM

Prep Batch: XXX45197

Prep Method: SW3550C

Prep Date/Time: 07/20/2021 12:02

Spike Init Wt./Vol.: 222 ug/kg Extract Vol: 5 mL

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/13/2021 2:33:35PM



Matrix Spike Summary

Original Sample ID: 1214357001
 MS Sample ID: 1624284 MS
 MSD Sample ID: 1624285 MSD

Analysis Date: 07/20/2021 21:31
 Analysis Date: 07/20/2021 21:41
 Analysis Date: 07/20/2021 21:51
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029

Results by SW8082A

| Parameter | Sample | Matrix Spike (ug/kg) | | | Spike Duplicate (ug/kg) | | | CL | RPD (%) | RPD CL |
|---------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Aroclor-1016 | 55.3U | 243 | 132 | 54 | 242 | 126 | 52 | 47-134 | 4.01 | (< 30) |
| Aroclor-1260 | 55.3U | 243 | 112 | 46 * | 242 | 107 | 44 * | 53-140 | 4.68 | (< 30) |
| Surrogates | | | | | | | | | | |
| Decachlorobiphenyl (surr) | | 97.2 | 60.7 | 63 | 97.0 | 58.2 | 60 | 60-125 | 4.31 | |

Batch Information

Analytical Batch: XGC10936
 Analytical Method: SW8082A
 Instrument: Agilent 7890B GC ECD SW F
 Analyst: CDM
 Analytical Date/Time: 7/20/2021 9:41:00PM

Prep Batch: XXX45197
 Prep Method: Sonication Extraction Soil SW8082 PCB
 Prep Date/Time: 7/20/2021 12:02:55PM
 Prep Initial Wt./Vol.: 22.75g
 Prep Extract Vol: 5.00mL

Print Date: 08/13/2021 2:33:37PM



Method Blank

Blank ID: MB for HBN 1822632 [XXX/45198]

Matrix: Soil/Solid (dry weight)

Blank Lab ID: 1624332

QC for Samples:

1214357001, 1214357002, 1214357003, 1214357004, 1214357009, 1214357010

Results by AK102

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------|----------------|---------------|-----------|--------------|
| Diesel Range Organics | 8.40J | 20.0 | 6.20 | mg/kg |
| Surrogates | | | | |
| 5a Androstane (surr) | 105 | 60-120 | | % |

Batch Information

Analytical Batch: XFC16010

Analytical Method: AK102

Instrument: Agilent 7890B R

Analyst: IVM

Analytical Date/Time: 7/20/2021 8:18:00PM

Prep Batch: XXX45198

Prep Method: SW3550C

Prep Date/Time: 7/20/2021 2:26:42PM

Prep Initial Wt./Vol.: 30 g

Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:33:38PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [XXX45198]
Blank Spike Lab ID: 1624333
Date Analyzed: 07/20/2021 20:28

Spike Duplicate ID: LCSD for HBN 1214357 [XXX45198]
Spike Duplicate Lab ID: 1624334
Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357009, 1214357010

Results by AK102

| Parameter | Blank Spike (mg/kg) | | | Spike Duplicate (mg/kg) | | | CL | RPD (%) | RPD CL |
|-----------------------|---------------------|--------|---------|-------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Diesel Range Organics | 667 | 725 | 109 | 667 | 736 | 110 | (75-125) | 1.60 | (< 20) |

Surrogates

| | | | | | | |
|----------------------|------|-----|------|-----|------------|------|
| 5a Androstane (surr) | 16.7 | 110 | 16.7 | 109 | (60-120) | 0.55 |
|----------------------|------|-----|------|-----|------------|------|

Batch Information

Analytical Batch: **XFC16010**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **IVM**

Prep Batch: **XXX45198**
Prep Method: **SW3550C**
Prep Date/Time: **07/20/2021 14:26**
Spike Init Wt./Vol.: 667 mg/kg Extract Vol: 5 mL
Dupe Init Wt./Vol.: 667 mg/kg Extract Vol: 5 mL

Print Date: 08/13/2021 2:33:41PM



Method Blank

Blank ID: MB for HBN 1822632 [XXX/45198]

Matrix: Soil/Solid (dry weight)

Blank Lab ID: 1624332

QC for Samples:

1214357001, 1214357002, 1214357003, 1214357004, 1214357009, 1214357010

Results by AK103

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|--------------------------|----------------|---------------|-----------|--------------|
| Residual Range Organics | 50.0U | 100 | 43.0 | mg/kg |
| Surrogates | | | | |
| n-Triacontane-d62 (surr) | 103 | 60-120 | | % |

Batch Information

Analytical Batch: XFC16010

Analytical Method: AK103

Instrument: Agilent 7890B R

Analyst: IVM

Analytical Date/Time: 7/20/2021 8:18:00PM

Prep Batch: XXX45198

Prep Method: SW3550C

Prep Date/Time: 7/20/2021 2:26:42PM

Prep Initial Wt./Vol.: 30 g

Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:33:43PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [XXX45198]
Blank Spike Lab ID: 1624333
Date Analyzed: 07/20/2021 20:28

Spike Duplicate ID: LCSD for HBN 1214357
[XXX45198]
Spike Duplicate Lab ID: 1624334
Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357001, 1214357002, 1214357003, 1214357004, 1214357009, 1214357010

Results by AK103

| Parameter | Blank Spike (mg/kg) | | | Spike Duplicate (mg/kg) | | | CL | RPD (%) | RPD CL |
|--------------------------|---------------------|--------|---------|-------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Residual Range Organics | 667 | 670 | 100 | 667 | 679 | 102 | (60-120) | 1.40 | (< 20) |
| Surrogates | | | | | | | | | |
| n-Triacontane-d62 (surr) | 16.7 | | 108 | 16.7 | | 102 | (60-120) | 5.60 | |

Batch Information

Analytical Batch: **XFC16010**
Analytical Method: **AK103**
Instrument: **Agilent 7890B R**
Analyst: **IVM**

Prep Batch: **XXX45198**
Prep Method: **SW3550C**
Prep Date/Time: **07/20/2021 14:26**
Spike Init Wt./Vol.: 667 mg/kg Extract Vol: 5 mL
Dupe Init Wt./Vol.: 667 mg/kg Extract Vol: 5 mL

Print Date: 08/13/2021 2:33:46PM



Method Blank

Blank ID: MB for HBN 1822641 [XXX/45199]
Blank Lab ID: 1624384

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357005, 1214357006, 1214357007, 1214357008, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015, 1214357016, 1214357017, 1214357018, 1214357019, 1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025

Results by AK102

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------|----------------|---------------|-----------|--------------|
| Diesel Range Organics | 10.0U | 20.0 | 6.20 | mg/kg |
| Surrogates | | | | |
| 5a Androstane (surr) | 105 | 60-120 | | % |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: IVM
Analytical Date/Time: 7/21/2021 3:28:00PM

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 7/21/2021 7:00:49AM
Prep Initial Wt./Vol.: 30 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:33:48PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [XXX45199]
 Blank Spike Lab ID: 1624385
 Date Analyzed: 07/21/2021 15:38

Spike Duplicate ID: LCSD for HBN 1214357 [XXX45199]
 Spike Duplicate Lab ID: 1624386
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357005, 1214357006, 1214357007, 1214357008, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015, 1214357016, 1214357017, 1214357018, 1214357019, 1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025

Results by AK102

| Parameter | Blank Spike (mg/kg) | | | Spike Duplicate (mg/kg) | | | CL | RPD (%) | RPD CL |
|-----------------------|---------------------|--------|---------|-------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Diesel Range Organics | 667 | 732 | 110 | 667 | 738 | 111 | (75-125) | 0.86 | (< 20) |

Surrogates

| | | | | | | |
|----------------------|------|-----|------|-----|------------|------|
| 5a Androstane (surr) | 16.7 | 107 | 16.7 | 108 | (60-120) | 0.53 |
|----------------------|------|-----|------|-----|------------|------|

Batch Information

Analytical Batch: **XFC16011**
 Analytical Method: **AK102**
 Instrument: **Agilent 7890B F**
 Analyst: **IVM**

Prep Batch: **XXX45199**
 Prep Method: **SW3550C**
 Prep Date/Time: **07/21/2021 07:00**
 Spike Init Wt./Vol.: 667 mg/kg Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 667 mg/kg Extract Vol: 5 mL

Print Date: 08/13/2021 2:33:50PM



Method Blank

Blank ID: MB for HBN 1822641 [XXX/45199]
Blank Lab ID: 1624384

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357005, 1214357006, 1214357007, 1214357008, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015, 1214357016, 1214357017, 1214357018, 1214357019, 1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025

Results by AK103

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|--------------------------|----------------|---------------|-----------|--------------|
| Residual Range Organics | 50.0U | 100 | 43.0 | mg/kg |
| Surrogates | | | | |
| n-Triacontane-d62 (surr) | 107 | 60-120 | | % |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Instrument: Agilent 7890B F
Analyst: IVM
Analytical Date/Time: 7/21/2021 3:28:00PM

Prep Batch: XXX45199
Prep Method: SW3550C
Prep Date/Time: 7/21/2021 7:00:49AM
Prep Initial Wt./Vol.: 30 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:33:53PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [XXX45199]
 Blank Spike Lab ID: 1624385
 Date Analyzed: 07/21/2021 15:38

Spike Duplicate ID: LCSD for HBN 1214357 [XXX45199]
 Spike Duplicate Lab ID: 1624386
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357005, 1214357006, 1214357007, 1214357008, 1214357011, 1214357012, 1214357013, 1214357014, 1214357015, 1214357016, 1214357017, 1214357018, 1214357019, 1214357020, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025

Results by AK103

| Parameter | Blank Spike (mg/kg) | | | Spike Duplicate (mg/kg) | | | CL | RPD (%) | RPD CL |
|-------------------------|---------------------|--------|---------|-------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Residual Range Organics | 667 | 719 | 108 | 667 | 713 | 107 | (60-120) | 0.82 | (< 20) |

Surrogates

| | | | | | | |
|--------------------------|------|-----|------|-----|------------|------|
| n-Triacontane-d62 (surr) | 16.7 | 103 | 16.7 | 105 | (60-120) | 2.20 |
|--------------------------|------|-----|------|-----|------------|------|

Batch Information

Analytical Batch: **XFC16011**
 Analytical Method: **AK103**
 Instrument: **Agilent 7890B F**
 Analyst: **IVM**

Prep Batch: **XXX45199**
 Prep Method: **SW3550C**
 Prep Date/Time: **07/21/2021 07:00**
 Spike Init Wt./Vol.: 667 mg/kg Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 667 mg/kg Extract Vol: 5 mL

Print Date: 08/13/2021 2:33:56PM



Method Blank

Blank ID: MB for HBN 1822656 [XXX/45202]
Blank Lab ID: 1624451

Matrix: Soil/Solid (dry weight)

QC for Samples:
1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW8082A

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|---------------------------|----------------|---------------|-----------|--------------|
| Aroclor-1016 | 25.0U | 50.0 | 12.5 | ug/kg |
| Aroclor-1221 | 50.0U | 100 | 25.0 | ug/kg |
| Aroclor-1232 | 25.0U | 50.0 | 12.5 | ug/kg |
| Aroclor-1242 | 25.0U | 50.0 | 12.5 | ug/kg |
| Aroclor-1248 | 25.0U | 50.0 | 12.5 | ug/kg |
| Aroclor-1254 | 25.0U | 50.0 | 12.5 | ug/kg |
| Aroclor-1260 | 25.0U | 50.0 | 12.5 | ug/kg |
| Surrogates | | | | |
| Decachlorobiphenyl (surr) | 102 | 60-125 | | % |

Batch Information

Analytical Batch: XGC10937
Analytical Method: SW8082A
Instrument: Agilent 7890B GC ECD SW R
Analyst: CDM
Analytical Date/Time: 7/21/2021 10:53:00PM

Prep Batch: XXX45202
Prep Method: SW3550C
Prep Date/Time: 7/21/2021 8:16:33AM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:33:58PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [XXX45202]

Blank Spike Lab ID: 1624452

Date Analyzed: 07/21/2021 23:04

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW8082A

Blank Spike (ug/kg)

| Parameter | Spike | Result | Rec (%) | CL |
|---------------------------|-------|--------|---------|------------|
| Aroclor-1016 | 222 | 178 | 80 | (47-134) |
| Aroclor-1260 | 222 | 204 | 92 | (53-140) |
| Surrogates | | | | |
| Decachlorobiphenyl (surr) | 88.9 | | 102 | (60-125) |

Batch Information

Analytical Batch: XGC10937

Analytical Method: SW8082A

Instrument: Agilent 7890B GC ECD SW R

Analyst: CDM

Prep Batch: XXX45202

Prep Method: SW3550C

Prep Date/Time: 07/21/2021 08:16

Spike Init Wt./Vol.: 222 ug/kg Extract Vol: 5 mL

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/13/2021 2:34:00PM



Matrix Spike Summary

Original Sample ID: 1214409013
MS Sample ID: 1624453 MS
MSD Sample ID: 1624454 MSD

Analysis Date: 07/23/2021 1:33
Analysis Date: 07/23/2021 1:54
Analysis Date: 07/23/2021 2:14
Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by SW8082A

| Parameter | Sample | Matrix Spike (ug/kg) | | | Spike Duplicate (ug/kg) | | | CL | RPD (%) | RPD CL |
|---------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Aroclor-1016 | 58.5U | 525 | 305 | 58 | 520 | 270 | 52 | 47-134 | 11.60 | (< 30) |
| Aroclor-1260 | 58.5U | 525 | 262 | 50 * | 520 | 234 | 45 * | 53-140 | 11.20 | (< 30) |
| Surrogates | | | | | | | | | | |
| Decachlorobiphenyl (surr) | | 209 | 136 | 65 | 208 | 109 | 53 * | 60-125 | 21.90 | |

Batch Information

Analytical Batch: XGC10939
Analytical Method: SW8082A
Instrument: Agilent 7890B GC ECD SW R
Analyst: CDM
Analytical Date/Time: 7/23/2021 1:54:00AM

Prep Batch: XXX45202
Prep Method: Sonication Extraction Soil SW8082 PCB
Prep Date/Time: 7/21/2021 8:16:33AM
Prep Initial Wt./Vol.: 22.56g
Prep Extract Vol: 5.00mL

Print Date: 08/13/2021 2:34:02PM



Method Blank

Blank ID: MB for HBN 1822756 [XXX/45206]
Blank Lab ID: 1624635

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by AK102

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------|----------------|---------------|-----------|--------------|
| Diesel Range Organics | 9.21J | 20.0 | 6.20 | mg/kg |
| Surrogates | | | | |
| 5a Androstane (surr) | 106 | 60-120 | | % |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: IVM
Analytical Date/Time: 7/21/2021 6:59:00PM

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 7/21/2021 2:37:49PM
Prep Initial Wt./Vol.: 30 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:34:03PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [XXX45206]
Blank Spike Lab ID: 1624636
Date Analyzed: 07/21/2021 19:09

Spike Duplicate ID: LCSD for HBN 1214357 [XXX45206]
Spike Duplicate Lab ID: 1624637
Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by AK102

| Parameter | Blank Spike (mg/kg) | | | Spike Duplicate (mg/kg) | | | CL | RPD (%) | RPD CL |
|-----------------------|---------------------|--------|---------|-------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Diesel Range Organics | 667 | 772 | 116 | 667 | 761 | 114 | (75-125) | 1.40 | (< 20) |

Surrogates

| | | | | | | |
|----------------------|------|-----|------|-----|------------|------|
| 5a Androstane (surr) | 16.7 | 115 | 16.7 | 112 | (60-120) | 2.10 |
|----------------------|------|-----|------|-----|------------|------|

Batch Information

Analytical Batch: **XFC16011**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **IVM**

Prep Batch: **XXX45206**
Prep Method: **SW3550C**
Prep Date/Time: **07/21/2021 14:37**
Spike Init Wt./Vol.: 667 mg/kg Extract Vol: 5 mL
Dupe Init Wt./Vol.: 667 mg/kg Extract Vol: 5 mL

Print Date: 08/13/2021 2:34:06PM



Method Blank

Blank ID: MB for HBN 1822756 [XXX/45206]
Blank Lab ID: 1624635

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by AK103

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|--------------------------|----------------|---------------|-----------|--------------|
| Residual Range Organics | 50.0U | 100 | 43.0 | mg/kg |
| Surrogates | | | | |
| n-Triacontane-d62 (surr) | 108 | 60-120 | | % |

Batch Information

Analytical Batch: XFC16011
Analytical Method: AK103
Instrument: Agilent 7890B F
Analyst: IVM
Analytical Date/Time: 7/21/2021 6:59:00PM

Prep Batch: XXX45206
Prep Method: SW3550C
Prep Date/Time: 7/21/2021 2:37:49PM
Prep Initial Wt./Vol.: 30 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:34:08PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [XXX45206]
 Blank Spike Lab ID: 1624636
 Date Analyzed: 07/21/2021 19:09

Spike Duplicate ID: LCSD for HBN 1214357
 [XXX45206]
 Spike Duplicate Lab ID: 1624637
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032,
 1214357033, 1214357034, 1214357035

Results by AK103

| Parameter | Blank Spike (mg/kg) | | | Spike Duplicate (mg/kg) | | | CL | RPD (%) | RPD CL |
|-------------------------|---------------------|--------|---------|-------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Residual Range Organics | 667 | 753 | 113 | 667 | 734 | 110 | (60-120) | 2.50 | (< 20) |

Surrogates

| | | | | | | |
|--------------------------|------|-----|------|-----|------------|------|
| n-Triacontane-d62 (surr) | 16.7 | 112 | 16.7 | 108 | (60-120) | 2.90 |
|--------------------------|------|-----|------|-----|------------|------|

Batch Information

Analytical Batch: **XFC16011**
 Analytical Method: **AK103**
 Instrument: **Agilent 7890B F**
 Analyst: **IVM**

Prep Batch: **XXX45206**
 Prep Method: **SW3550C**
 Prep Date/Time: **07/21/2021 14:37**
 Spike Init Wt./Vol.: 667 mg/kg Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 667 mg/kg Extract Vol: 5 mL

Print Date: 08/13/2021 2:34:11PM



Method Blank

Blank ID: MB for HBN 1822794 [XXX/45211]

Blank Lab ID: 1624823

QC for Samples:

1214357036, 1214357037

Matrix: Water (Surface, Eff., Ground)

Results by 8270D SIM LV (PAH)

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|--------------------------------|----------------|---------------|-----------|--------------|
| 1-Methylnaphthalene | 0.0250U | 0.0500 | 0.0150 | ug/L |
| 2-Methylnaphthalene | 0.0250U | 0.0500 | 0.0150 | ug/L |
| Acenaphthene | 0.0250U | 0.0500 | 0.0150 | ug/L |
| Acenaphthylene | 0.0250U | 0.0500 | 0.0150 | ug/L |
| Anthracene | 0.0250U | 0.0500 | 0.0150 | ug/L |
| Benzo(a)Anthracene | 0.0250U | 0.0500 | 0.0150 | ug/L |
| Benzo[a]pyrene | 0.0100U | 0.0200 | 0.00620 | ug/L |
| Benzo[b]Fluoranthene | 0.0250U | 0.0500 | 0.0150 | ug/L |
| Benzo[g,h,i]perylene | 0.0250U | 0.0500 | 0.0150 | ug/L |
| Benzo[k]fluoranthene | 0.0250U | 0.0500 | 0.0150 | ug/L |
| Chrysene | 0.0250U | 0.0500 | 0.0150 | ug/L |
| Dibenzo[a,h]anthracene | 0.0100U | 0.0200 | 0.00620 | ug/L |
| Fluoranthene | 0.0250U | 0.0500 | 0.0150 | ug/L |
| Fluorene | 0.0250U | 0.0500 | 0.0150 | ug/L |
| Indeno[1,2,3-c,d] pyrene | 0.0250U | 0.0500 | 0.0150 | ug/L |
| Naphthalene | 0.0500U | 0.100 | 0.0310 | ug/L |
| Phenanthrene | 0.0268J | 0.0500 | 0.0150 | ug/L |
| Pyrene | 0.0250U | 0.0500 | 0.0150 | ug/L |
| Surrogates | | | | |
| 2-Methylnaphthalene-d10 (surr) | 56.6 | 42-86 | | % |
| Fluoranthene-d10 (surr) | 78.5 | 50-97 | | % |

Batch Information

Analytical Batch: XMS12769
Analytical Method: 8270D SIM LV (PAH)
Instrument: Agilent GC 7890B/5977A SWA
Analyst: LAW
Analytical Date/Time: 7/23/2021 11:26:00AM

Prep Batch: XXX45211
Prep Method: SW3535A
Prep Date/Time: 7/22/2021 1:00:37AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 08/13/2021 2:34:13PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [XXX45211]
 Blank Spike Lab ID: 1624824
 Date Analyzed: 07/23/2021 11:47

Spike Duplicate ID: LCSD for HBN 1214357
 [XXX45211]
 Spike Duplicate Lab ID: 1624825
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214357036, 1214357037

Results by 8270D SIM LV (PAH)

| Parameter | Blank Spike (ug/L) | | | Spike Duplicate (ug/L) | | | CL | RPD (%) | RPD CL |
|--------------------------------|--------------------|--------|---------|------------------------|--------|---------|------------|---------|----------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1-Methylnaphthalene | 2 | 1.15 | 57 | 2 | 0.916 | 46 | (41-115) | 22.50 | * (< 20) |
| 2-Methylnaphthalene | 2 | 1.09 | 55 | 2 | 0.957 | 48 | (39-114) | 13.30 | (< 20) |
| Acenaphthene | 2 | 1.33 | 67 | 2 | 1.09 | 54 | (48-114) | 20.50 | * (< 20) |
| Acenaphthylene | 2 | 1.37 | 69 | 2 | 1.17 | 59 | (35-121) | 15.60 | (< 20) |
| Anthracene | 2 | 1.32 | 66 | 2 | 1.15 | 57 | (53-119) | 14.30 | (< 20) |
| Benzo(a)Anthracene | 2 | 1.48 | 74 | 2 | 1.35 | 67 | (59-120) | 9.20 | (< 20) |
| Benzo[a]pyrene | 2 | 1.64 | 82 | 2 | 1.48 | 74 | (53-120) | 10.20 | (< 20) |
| Benzo[b]Fluoranthene | 2 | 1.63 | 81 | 2 | 1.46 | 73 | (53-126) | 10.60 | (< 20) |
| Benzo[g,h,i]perylene | 2 | 1.79 | 89 | 2 | 1.59 | 80 | (44-128) | 11.50 | (< 20) |
| Benzo[k]fluoranthene | 2 | 1.61 | 81 | 2 | 1.47 | 73 | (54-125) | 9.30 | (< 20) |
| Chrysene | 2 | 1.66 | 83 | 2 | 1.51 | 75 | (57-120) | 9.40 | (< 20) |
| Dibenzo[a,h]anthracene | 2 | 1.80 | 90 | 2 | 1.62 | 81 | (44-131) | 10.50 | (< 20) |
| Fluoranthene | 2 | 1.47 | 73 | 2 | 1.29 | 65 | (58-120) | 12.80 | (< 20) |
| Fluorene | 2 | 1.41 | 70 | 2 | 1.19 | 60 | (50-118) | 16.30 | (< 20) |
| Indeno[1,2,3-c,d] pyrene | 2 | 1.74 | 87 | 2 | 1.55 | 77 | (48-130) | 11.30 | (< 20) |
| Naphthalene | 2 | 1.12 | 56 | 2 | 0.992 | 50 | (43-114) | 11.90 | (< 20) |
| Phenanthrene | 2 | 1.47 | 74 | 2 | 1.24 | 62 | (53-115) | 17.60 | (< 20) |
| Pyrene | 2 | 1.45 | 72 | 2 | 1.31 | 65 | (53-121) | 10.30 | (< 20) |
| Surrogates | | | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 2 | | 56 | 2 | | 48 | (42-86) | 15.00 | |
| Fluoranthene-d10 (surr) | 2 | | 78 | 2 | | 72 | (50-97) | 7.80 | |

Batch Information

Analytical Batch: XMS12769
 Analytical Method: 8270D SIM LV (PAH)
 Instrument: Agilent GC 7890B/5977A SWA
 Analyst: LAW

Prep Batch: XXX45211
 Prep Method: SW3535A
 Prep Date/Time: 07/22/2021 01:00
 Spike Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL
 Dupe Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL

Print Date: 08/13/2021 2:34:16PM



Matrix Spike Summary

Original Sample ID: 1214324002
MS Sample ID: 1624826 MS
MSD Sample ID: 1624827 MSD

Analysis Date: 07/23/2021 13:31
Analysis Date: 07/23/2021 13:52
Analysis Date: 07/23/2021 14:12
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214357036, 1214357037

Results by 8270D SIM LV (PAH)

| Parameter | Sample | Matrix Spike (ug/L) | | | Spike Duplicate (ug/L) | | | CL | RPD (%) | RPD CL |
|--------------------------------|---------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1-Methylnaphthalene | 0.0250U | 2.00 | 1.23 | 62 | 2.00 | 1.21 | 60 | 41-115 | 1.90 | (< 20) |
| 2-Methylnaphthalene | 0.0250U | 2.00 | 1.25 | 63 | 2.00 | 1.13 | 57 | 39-114 | 10.10 | (< 20) |
| Naphthalene | 0.0500U | 2.00 | 1.31 | 65 | 2.00 | 1.21 | 61 | 43-114 | 7.40 | (< 20) |
| Surrogates | | | | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | | 2.00 | 1.19 | 60 | 2.00 | 1.21 | 61 | 42-86 | 1.70 | |
| Fluoranthene-d10 (surr) | | 2.00 | 1.65 | 83 | 2.00 | 1.78 | 89 | 50-97 | 7.40 | |

Batch Information

Analytical Batch: XMS12769
Analytical Method: 8270D SIM LV (PAH)
Instrument: Agilent GC 7890B/5977A SWA
Analyst: LAW
Analytical Date/Time: 7/23/2021 1:52:00PM

Prep Batch: XXX45211
Prep Method: 3535 Solid Phase Ext for 8270 PAH SIM LV
Prep Date/Time: 7/22/2021 1:00:37AM
Prep Initial Wt./Vol.: 250.00mL
Prep Extract Vol: 1.00mL

Print Date: 08/13/2021 2:34:17PM



Method Blank

Blank ID: MB for HBN 1822795 [XXX/45212]

Blank Lab ID: 1624828

QC for Samples:

1214357003, 1214357006

Matrix: Soil/Solid (dry weight)

Results by 8270D SIM (PAH)

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|--------------------------------|----------------|---------------|-----------|--------------|
| 1-Methylnaphthalene | 12.5U | 25.0 | 6.25 | ug/kg |
| 2-Methylnaphthalene | 12.5U | 25.0 | 6.25 | ug/kg |
| Acenaphthene | 12.5U | 25.0 | 6.25 | ug/kg |
| Acenaphthylene | 12.5U | 25.0 | 6.25 | ug/kg |
| Anthracene | 12.5U | 25.0 | 6.25 | ug/kg |
| Benzo(a)Anthracene | 12.5U | 25.0 | 6.25 | ug/kg |
| Benzo[a]pyrene | 12.5U | 25.0 | 6.25 | ug/kg |
| Benzo[b]Fluoranthene | 12.5U | 25.0 | 6.25 | ug/kg |
| Benzo[g,h,i]perylene | 12.5U | 25.0 | 6.25 | ug/kg |
| Benzo[k]fluoranthene | 12.5U | 25.0 | 6.25 | ug/kg |
| Chrysene | 12.5U | 25.0 | 6.25 | ug/kg |
| Dibenzo[a,h]anthracene | 12.5U | 25.0 | 6.25 | ug/kg |
| Fluoranthene | 12.5U | 25.0 | 6.25 | ug/kg |
| Fluorene | 12.5U | 25.0 | 6.25 | ug/kg |
| Indeno[1,2,3-c,d] pyrene | 12.5U | 25.0 | 6.25 | ug/kg |
| Naphthalene | 10.0U | 20.0 | 5.00 | ug/kg |
| Phenanthrene | 12.5U | 25.0 | 6.25 | ug/kg |
| Pyrene | 12.5U | 25.0 | 6.25 | ug/kg |
| Surrogates | | | | |
| 2-Methylnaphthalene-d10 (surr) | 92 | 58-103 | | % |
| Fluoranthene-d10 (surr) | 92.3 | 54-113 | | % |

Batch Information

Analytical Batch: XMS12785
Analytical Method: 8270D SIM (PAH)
Instrument: Agilent GC 7890B/5977A SWA
Analyst: LAW
Analytical Date/Time: 7/27/2021 1:04:00PM

Prep Batch: XXX45212
Prep Method: SW3550C
Prep Date/Time: 7/22/2021 10:24:40AM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:34:19PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [XXX45212]

Blank Spike Lab ID: 1624829

Date Analyzed: 07/27/2021 13:25

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357003, 1214357006

Results by 8270D SIM (PAH)

Blank Spike (ug/kg)

| Parameter | Spike | Result | Rec (%) | CL |
|--------------------------------|-------|--------|---------|------------|
| 1-Methylnaphthalene | 111 | 96.4 | 87 | (43-111) |
| 2-Methylnaphthalene | 111 | 97.9 | 88 | (39-114) |
| Acenaphthene | 111 | 104 | 94 | (44-111) |
| Acenaphthylene | 111 | 102 | 91 | (39-116) |
| Anthracene | 111 | 100 | 90 | (50-114) |
| Benzo(a)Anthracene | 111 | 99.9 | 90 | (54-122) |
| Benzo[a]pyrene | 111 | 102 | 92 | (50-125) |
| Benzo[b]Fluoranthene | 111 | 107 | 96 | (53-128) |
| Benzo[g,h,i]perylene | 111 | 101 | 91 | (49-127) |
| Benzo[k]fluoranthene | 111 | 100 | 90 | (56-123) |
| Chrysene | 111 | 102 | 92 | (57-118) |
| Dibenzo[a,h]anthracene | 111 | 98.1 | 88 | (50-129) |
| Fluoranthene | 111 | 102 | 92 | (55-119) |
| Fluorene | 111 | 104 | 94 | (47-114) |
| Indeno[1,2,3-c,d] pyrene | 111 | 100 | 90 | (49-130) |
| Naphthalene | 111 | 98.9 | 89 | (38-111) |
| Phenanthrene | 111 | 99.2 | 89 | (49-113) |
| Pyrene | 111 | 102 | 92 | (55-117) |
| Surrogates | | | | |
| 2-Methylnaphthalene-d10 (surr) | 111 | | 92 | (58-103) |
| Fluoranthene-d10 (surr) | 111 | | 91 | (54-113) |

Batch Information

Analytical Batch: XMS12785

Analytical Method: 8270D SIM (PAH)

Instrument: Agilent GC 7890B/5977A SWA

Analyst: LAW

Prep Batch: XXX45212

Prep Method: SW3550C

Prep Date/Time: 07/22/2021 10:24

Spike Init Wt./Vol.: 111 ug/kg Extract Vol: 5 mL

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/13/2021 2:34:21PM



Matrix Spike Summary

Original Sample ID: 1214350001
MS Sample ID: 1626570 MS
MSD Sample ID: 1626571 MSD

Analysis Date: 07/27/2021 14:26
Analysis Date: 07/27/2021 14:47
Analysis Date: 07/27/2021 15:07
Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357003, 1214357006

Results by 8270D SIM (PAH)

| Parameter | Sample | Matrix Spike (ug/kg) | | | Spike Duplicate (ug/kg) | | | CL | RPD (%) | RPD CL |
|--------------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1-Methylnaphthalene | 13.7J | 136 | 125 | 82 | 137 | 121 | 78 | 43-111 | 3.70 | (< 20) |
| 2-Methylnaphthalene | 26.0J | 136 | 143 | 86 | 137 | 138 | 82 | 39-114 | 3.10 | (< 20) |
| Naphthalene | 27.5 | 136 | 142 | 84 | 137 | 137 | 80 | 38-111 | 3.10 | (< 20) |
| Surrogates | | | | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | | 136 | 119 | 88 | 137 | 120 | 87 | 58-103 | 0.70 | |
| Fluoranthene-d10 (surr) | | 136 | 119 | 88 | 137 | 118 | 86 | 54-113 | 1.00 | |

Batch Information

Analytical Batch: XMS12785
Analytical Method: 8270D SIM (PAH)
Instrument: Agilent GC 7890B/5977A SWA
Analyst: LAW
Analytical Date/Time: 7/27/2021 2:47:00PM

Prep Batch: XXX45212
Prep Method: Sonication Extr Soil 8270 PAH SIM 5ml
Prep Date/Time: 7/22/2021 10:24:40AM
Prep Initial Wt./Vol.: 22.96g
Prep Extract Vol: 5.00mL

Print Date: 08/13/2021 2:34:23PM



Method Blank

Blank ID: MB for HBN 1822853 [XXX/45216]
Blank Lab ID: 1625107

Matrix: Soil/Solid (dry weight)

QC for Samples:

1214357007, 1214357008, 1214357009, 1214357018, 1214357019, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by 8270D SIM (PAH)

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|--------------------------------|----------------|---------------|-----------|--------------|
| 1-Methylnaphthalene | 12.5U | 25.0 | 6.25 | ug/kg |
| 2-Methylnaphthalene | 12.5U | 25.0 | 6.25 | ug/kg |
| Acenaphthene | 12.5U | 25.0 | 6.25 | ug/kg |
| Acenaphthylene | 12.5U | 25.0 | 6.25 | ug/kg |
| Anthracene | 12.5U | 25.0 | 6.25 | ug/kg |
| Benzo(a)Anthracene | 12.5U | 25.0 | 6.25 | ug/kg |
| Benzo[a]pyrene | 12.5U | 25.0 | 6.25 | ug/kg |
| Benzo[b]Fluoranthene | 12.5U | 25.0 | 6.25 | ug/kg |
| Benzo[g,h,i]perylene | 12.5U | 25.0 | 6.25 | ug/kg |
| Benzo[k]fluoranthene | 12.5U | 25.0 | 6.25 | ug/kg |
| Chrysene | 12.5U | 25.0 | 6.25 | ug/kg |
| Dibenzo[a,h]anthracene | 12.5U | 25.0 | 6.25 | ug/kg |
| Fluoranthene | 12.5U | 25.0 | 6.25 | ug/kg |
| Fluorene | 12.5U | 25.0 | 6.25 | ug/kg |
| Indeno[1,2,3-c,d] pyrene | 12.5U | 25.0 | 6.25 | ug/kg |
| Naphthalene | 10.0U | 20.0 | 5.00 | ug/kg |
| Phenanthrene | 12.5U | 25.0 | 6.25 | ug/kg |
| Pyrene | 12.5U | 25.0 | 6.25 | ug/kg |
| Surrogates | | | | |
| 2-Methylnaphthalene-d10 (surr) | 98.2 | 58-103 | | % |
| Fluoranthene-d10 (surr) | 91.7 | 54-113 | | % |

Batch Information

Analytical Batch: XMS12782
Analytical Method: 8270D SIM (PAH)
Instrument: SVA Agilent 780/5975 GC/MS
Analyst: LAW
Analytical Date/Time: 7/27/2021 3:18:00PM

Prep Batch: XXX45216
Prep Method: SW3550C
Prep Date/Time: 7/23/2021 12:00:50PM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 5 mL

Print Date: 08/13/2021 2:34:24PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [XXX45216]

Blank Spike Lab ID: 1625108

Date Analyzed: 07/27/2021 15:39

Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357007, 1214357008, 1214357009, 1214357018, 1214357019, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by 8270D SIM (PAH)

Blank Spike (ug/kg)

| Parameter | Spike | Result | Rec (%) | CL |
|--------------------------------|-------|--------|---------|----------|
| 1-Methylnaphthalene | 111 | 109 | 98 | (43-111) |
| 2-Methylnaphthalene | 111 | 111 | 100 | (39-114) |
| Acenaphthene | 111 | 112 | 101 | (44-111) |
| Acenaphthylene | 111 | 112 | 101 | (39-116) |
| Anthracene | 111 | 117 | 106 | (50-114) |
| Benzo(a)Anthracene | 111 | 113 | 102 | (54-122) |
| Benzo[a]pyrene | 111 | 118 | 106 | (50-125) |
| Benzo[b]Fluoranthene | 111 | 120 | 108 | (53-128) |
| Benzo[g,h,i]perylene | 111 | 125 | 113 | (49-127) |
| Benzo[k]fluoranthene | 111 | 121 | 109 | (56-123) |
| Chrysene | 111 | 116 | 104 | (57-118) |
| Dibenzo[a,h]anthracene | 111 | 135 | 121 | (50-129) |
| Fluoranthene | 111 | 107 | 96 | (55-119) |
| Fluorene | 111 | 113 | 102 | (47-114) |
| Indeno[1,2,3-c,d] pyrene | 111 | 128 | 115 | (49-130) |
| Naphthalene | 111 | 106 | 96 | (38-111) |
| Phenanthrene | 111 | 113 | 102 | (49-113) |
| Pyrene | 111 | 108 | 97 | (55-117) |
| Surrogates | | | | |
| 2-Methylnaphthalene-d10 (surr) | 111 | | 102 | (58-103) |
| Fluoranthene-d10 (surr) | 111 | | 95 | (54-113) |

Batch Information

Analytical Batch: XMS12782

Analytical Method: 8270D SIM (PAH)

Instrument: SVA Agilent 780/5975 GC/MS

Analyst: LAW

Prep Batch: XXX45216

Prep Method: SW3550C

Prep Date/Time: 07/23/2021 12:00

Spike Init Wt./Vol.: 111 ug/kg Extract Vol: 5 mL

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/13/2021 2:34:26PM



Matrix Spike Summary

Original Sample ID: 1214357034
 MS Sample ID: 1625109 MS
 MSD Sample ID: 1625110 MSD

Analysis Date: 07/27/2021 17:01
 Analysis Date: 07/27/2021 17:22
 Analysis Date: 07/27/2021 17:42
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1214357007, 1214357008, 1214357009, 1214357018, 1214357019, 1214357021, 1214357022, 1214357023, 1214357024, 1214357025, 1214357026, 1214357027, 1214357028, 1214357029, 1214357030, 1214357031, 1214357032, 1214357033, 1214357034, 1214357035

Results by 8270D SIM (PAH)

| Parameter | Sample | Matrix Spike (ug/kg) | | | Spike Duplicate (ug/kg) | | | CL | RPD (%) | RPD CL |
|--------------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|----------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1-Methylnaphthalene | 27.0U | 120 | 111 | 93 | 120 | 110 | 92 | 43-111 | 1.40 | (< 20) |
| 2-Methylnaphthalene | 27.0U | 120 | 118 | 99 | 120 | 118 | 99 | 39-114 | 0.14 | (< 20) |
| Acenaphthene | 27.0U | 120 | 110 | 91 | 120 | 106 | 89 | 44-111 | 3.70 | (< 20) |
| Acenaphthylene | 27.0U | 120 | 109 | 91 | 120 | 105 | 88 | 39-116 | 3.50 | (< 20) |
| Anthracene | 27.0U | 120 | 106 | 88 | 120 | 101 | 85 | 50-114 | 4.10 | (< 20) |
| Benzo(a)Anthracene | 27.0U | 120 | 89.3 | 75 | 120 | 88.0 | 74 | 54-122 | 1.40 | (< 20) |
| Benzo(a)pyrene | 27.0U | 120 | 78.9 | 66 | 120 | 81.6 | 69 | 50-125 | 3.40 | (< 20) |
| Benzo(b)Fluoranthene | 27.0U | 120 | 88.8 | 74 | 120 | 88.4 | 74 | 53-128 | 0.53 | (< 20) |
| Benzo(g,h,i)perylene | 27.0U | 120 | 63.9 | 53 | 120 | 78.9 | 66 | 49-127 | 21.00 | * (< 20) |
| Benzo(k)fluoranthene | 27.0U | 120 | 85.2 | 71 | 120 | 87.0 | 73 | 56-123 | 2.00 | (< 20) |
| Chrysene | 27.0U | 120 | 92.4 | 77 | 120 | 90.8 | 76 | 57-118 | 1.90 | (< 20) |
| Dibenzo(a,h)anthracene | 27.0U | 120 | 65.5 | 55 | 120 | 71.7 | 60 | 50-129 | 8.90 | (< 20) |
| Fluoranthene | 27.0U | 120 | 96.6 | 81 | 120 | 94.8 | 80 | 55-119 | 1.90 | (< 20) |
| Fluorene | 27.0U | 120 | 110 | 92 | 120 | 107 | 90 | 47-114 | 2.70 | (< 20) |
| Indeno[1,2,3-c,d] pyrene | 27.0U | 120 | 59.2 | 49 | 120 | 66.1 | 56 | 49-130 | 10.80 | (< 20) |
| Naphthalene | 21.6U | 120 | 107 | 89 | 120 | 104 | 87 | 38-111 | 2.40 | (< 20) |
| Phenanthrene | 27.0U | 120 | 113 | 94 | 120 | 110 | 92 | 49-113 | 3.00 | (< 20) |
| Pyrene | 27.0U | 120 | 98.8 | 82 | 120 | 99.6 | 84 | 55-117 | 0.71 | (< 20) |
| Surrogates | | | | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | | 120 | 109 | 91 | 120 | 107 | 90 | 58-103 | 2.00 | |
| Fluoranthene-d10 (surr) | | 120 | 105 | 88 | 120 | 103 | 86 | 54-113 | 2.30 | |

Batch Information

Analytical Batch: XMS12782
 Analytical Method: 8270D SIM (PAH)
 Instrument: SVA Agilent 780/5975 GC/MS
 Analyst: LAW
 Analytical Date/Time: 7/27/2021 5:22:00PM

Prep Batch: XXX45216
 Prep Method: Sonication Extr Soil 8270 PAH SIM 5ml
 Prep Date/Time: 7/23/2021 12:00:50PM
 Prep Initial Wt./Vol.: 22.65g
 Prep Extract Vol: 5.00mL

Print Date: 08/13/2021 2:34:28PM



Method Blank

Blank ID: MB for HBN 1823083 [XXX/45246]

Blank Lab ID: 1625998

QC for Samples:

1214357036, 1214357037

Matrix: Water (Surface, Eff., Ground)

Results by SW8082A

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
| Aroclor-1016 | 0.0500U | 0.100 | 0.0310 | ug/L |
| Aroclor-1221 | 0.500U | 1.00 | 0.310 | ug/L |
| Aroclor-1232 | 0.0500U | 0.100 | 0.0310 | ug/L |
| Aroclor-1242 | 0.0500U | 0.100 | 0.0310 | ug/L |
| Aroclor-1248 | 0.0500U | 0.100 | 0.0310 | ug/L |
| Aroclor-1254 | 0.0500U | 0.100 | 0.0310 | ug/L |
| Aroclor-1260 | 0.0500U | 0.100 | 0.0310 | ug/L |

Surrogates

| | | | |
|---------------------------|------|--------|---|
| Decachlorobiphenyl (surr) | 97.5 | 40-135 | % |
|---------------------------|------|--------|---|

Batch Information

Analytical Batch: XGC10946
Analytical Method: SW8082A
Instrument: Agilent 7890B GC ECD SW R
Analyst: CDM
Analytical Date/Time: 7/27/2021 8:51:00PM

Prep Batch: XXX45246
Prep Method: SW3520C
Prep Date/Time: 7/27/2021 10:30:42AM
Prep Initial Wt./Vol.: 1000 mL
Prep Extract Vol: 1 mL

Print Date: 08/13/2021 2:34:29PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [XXX45246]
Blank Spike Lab ID: 1625999
Date Analyzed: 07/27/2021 21:01

Spike Duplicate ID: LCSD for HBN 1214357
[XXX45246]
Spike Duplicate Lab ID: 1626000
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214357036, 1214357037

Results by SW8082A

| Parameter | Blank Spike (ug/L) | | | Spike Duplicate (ug/L) | | | CL | RPD (%) | RPD CL |
|---------------------------|--------------------|--------|---------|------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Aroclor-1016 | 1 | 0.660 | 66 | 1 | 0.690 | 69 | (46-129) | 4.44 | (< 30) |
| Aroclor-1260 | 1 | 0.680 | 68 | 1 | 0.730 | 73 | (45-134) | 7.09 | (< 30) |
| Surrogates | | | | | | | | | |
| Decachlorobiphenyl (surr) | 0.400 | | 78 | 0.400 | | 98 | (40-135) | 22.90 | |

Batch Information

Analytical Batch: XGC10946
Analytical Method: SW8082A
Instrument: Agilent 7890B GC ECD SW R
Analyst: CDM

Prep Batch: XXX45246
Prep Method: SW3520C
Prep Date/Time: 07/27/2021 10:30
Spike Init Wt./Vol.: 1 ug/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 1 ug/L Extract Vol: 1 mL

Print Date: 08/13/2021 2:34:32PM



Method Blank

Blank ID: MB for HBN 1823148 [XXX/45258]

Blank Lab ID: 1626309

QC for Samples:

1214357036, 1214357037

Matrix: Water (Surface, Eff., Ground)

Results by AK102

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------|----------------|---------------|-----------|--------------|
| Diesel Range Organics | 0.300U | 0.600 | 0.180 | mg/L |
| Surrogates | | | | |
| 5a Androstane (surr) | 92.1 | 60-120 | | % |

Batch Information

Analytical Batch: XFC16023

Analytical Method: AK102

Instrument: Agilent 7890B R

Analyst: A.A

Analytical Date/Time: 7/29/2021 3:24:00PM

Prep Batch: XXX45258

Prep Method: SW3520C

Prep Date/Time: 7/28/2021 3:15:04PM

Prep Initial Wt./Vol.: 250 mL

Prep Extract Vol: 1 mL

Print Date: 08/13/2021 2:34:34PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [XXX45258]
Blank Spike Lab ID: 1626310
Date Analyzed: 07/29/2021 15:34

Spike Duplicate ID: LCSD for HBN 1214357
[XXX45258]
Spike Duplicate Lab ID: 1626311
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214357036, 1214357037

Results by AK102

| Parameter | Blank Spike (mg/L) | | | Spike Duplicate (mg/L) | | | CL | RPD (%) | RPD CL |
|-----------------------|--------------------|--------|---------|------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Diesel Range Organics | 20 | 18.4 | 92 | 20 | 16.7 | 83 | (75-125) | 9.70 | (< 20) |

Surrogates

| | | | | | | |
|----------------------|-----|-----|-----|----|------------|------|
| 5a Androstane (surr) | 0.4 | 101 | 0.4 | 98 | (60-120) | 3.30 |
|----------------------|-----|-----|-----|----|------------|------|

Batch Information

Analytical Batch: **XFC16023**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **A.A**

Prep Batch: **XXX45258**
Prep Method: **SW3520C**
Prep Date/Time: **07/28/2021 15:15**
Spike Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL

Print Date: 08/13/2021 2:34:36PM



Method Blank

Blank ID: MB for HBN 1823148 [XXX/45258]

Blank Lab ID: 1626309

QC for Samples:

1214357036, 1214357037

Matrix: Water (Surface, Eff., Ground)

Results by AK103

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|--------------------------|----------------|---------------|-----------|--------------|
| Residual Range Organics | 0.250U | 0.500 | 0.150 | mg/L |
| Surrogates | | | | |
| n-Triacontane-d62 (surr) | 107 | 60-120 | | % |

Batch Information

Analytical Batch: XFC16023

Analytical Method: AK103

Instrument: Agilent 7890B R

Analyst: A.A

Analytical Date/Time: 7/29/2021 3:24:00PM

Prep Batch: XXX45258

Prep Method: SW3520C

Prep Date/Time: 7/28/2021 3:15:04PM

Prep Initial Wt./Vol.: 250 mL

Prep Extract Vol: 1 mL

Print Date: 08/13/2021 2:34:38PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1214357 [XXX45258]
Blank Spike Lab ID: 1626310
Date Analyzed: 07/29/2021 15:34

Spike Duplicate ID: LCSD for HBN 1214357
[XXX45258]
Spike Duplicate Lab ID: 1626311
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1214357036, 1214357037

Results by AK103

| Parameter | Blank Spike (mg/L) | | | Spike Duplicate (mg/L) | | | CL | RPD (%) | RPD CL |
|--------------------------|--------------------|--------|---------|------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Residual Range Organics | 20 | 20.2 | 101 | 20 | 19.4 | 97 | (60-120) | 4.00 | (< 20) |
| Surrogates | | | | | | | | | |
| n-Triacontane-d62 (surr) | 0.4 | | 104 | 0.4 | | 103 | (60-120) | 0.53 | |

Batch Information

Analytical Batch: **XFC16023**
Analytical Method: **AK103**
Instrument: **Agilent 7890B R**
Analyst: **A.A**

Prep Batch: **XXX45258**
Prep Method: **SW3520C**
Prep Date/Time: **07/28/2021 15:15**
Spike Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 20 mg/L Extract Vol: 1 mL

Print Date: 08/13/2021 2:34:40PM



SGS North America Inc.
CHAIN OF CUSTODY RECORD

1214357



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CLIENT: TPECI

Instruction: Omissions may vary with onset of analysis.

id out.

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Section 1

CONTACT: PHONE #: 522-4337

PROJECT/ PWSID/ PERMIT#: Carey Volk

REPORTS TO: E-MAIL: Danger Bay

INVOICE TO: Profile #: Cvolk@tpaci.com

QUOTE #: TPECI

P.O. #: 1464-07

Section 3

Preservative

| # | CONTAINERS | Comp Grab MI (Multi-incremental) | Analysis* | | | | REMARKS/LOC ID |
|---|------------|----------------------------------|-----------|-----|--------|-------------|----------------|
| | | | GRO&VOC | EDB | DRO&RO | PCB | |
| 2 | 2 | G | X | X | X | PAH | |
| 4 | 4 | | X | X | X | RCRA Metals | |
| | | | X | X | X | | |
| | | | X | X | X | | |
| | | | X | X | X | | |
| | | | X | X | X | | |
| | | | X | X | X | | |
| | | | X | X | X | | |
| | | | X | X | X | | |
| | | | X | X | X | | |
| | | | X | X | X | | |
| | | | X | X | X | | |
| | | | X | X | X | | |

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 2

| RESERVED for lab use | SAMPLE IDENTIFICATION | DATE mm/dd/yy | TIME HH:MM | MATRIX/MATRIX CODE |
|----------------------|-----------------------|---------------|------------|--------------------|
| (21AB) | TH27-24 | 7/14/11 | 1100 | S |
| (22AD) | S1 | 7/15/11 | 840 | |
| (23AD) | S5 | | 900 | |
| (24AD) | S8 | | 855 | |
| (25AD) | S9 | | 920 | |
| (26AD) | S10 | | 913 | |
| (27AU) | S11 | | 945 | |
| (28AD) | S26 | | 930 | |
| (29AD) | N3 | | 1015 | |
| (30AD) | N7 | | 1045 | |

Section 5

| Relinquished By: (1) | Date | Time | Received By: |
|----------------------|---------|-------|-----------------------------|
| <i>Carey Volk</i> | 7/16/21 | | |
| Relinquished By: (2) | Date | Time | Received By: |
| | | | |
| Relinquished By: (3) | Date | Time | Received By: |
| | | | |
| Relinquished By: (4) | Date | Time | Received For Laboratory By: |
| | 7/16/21 | 15:44 | <i>[Signature]</i> RC |

Section 4

| Section 4 | DOD Project? | Yes | No | Data Deliverable Requirements: |
|--|--------------|-----|----|--------------------------------|
| | | | | |
| Cooler ID: | | | | |
| Requested Turnaround Time and/or Special Instructions: | | | | |
| Chain of Custody Seal: (Circle) | | | | |
| Temp Blank °C: | | | | 1) 5.5 D20 |
| or Ambient () 1) 19 D55 | | | | 2) 2.6 D20 |
| Delivery Method: Hand Delivery [] Commercial Delivery [] | | | | |

3) 3.5 D20
 6) 2.1 D58
 7) 2.0 D58

http://www.sgs.com/terms-and-conditions



SGS North America Inc. CHAIN OF CUSTODY RECORD

CLIENT: TPECI
INSTRUCTIONS: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.
Page 4 of 4

CONTACT: Carey Volk
PROJECT PWSID/ PERMIT#: 522-4337
REPORTS TO: Carey Volk
E-MAIL: Carey Volk
Profile #: Cwalk@tpci.com
QUOTE #: 1464-07
INVOICE TO: TPECI
P.O. #:

| RESERVED for lab use | SAMPLE IDENTIFICATION | DATE mm/dd/yy | TIME HH:MM | MATRIX CODE | CONTAINERS | | | | | | Comp Grab MI (Multi-Incremental) | Analysis* | REMARKS/LOC ID | | | | | | | | | |
|----------------------|-----------------------|---------------|------------|-------------|------------|------|------|-----|-----|-----|----------------------------------|-----------|----------------|-----|-------------|-----|-------------|---------|-------------|---|--|--|
| | | | | | Mech | Mech | HNO3 | HCl | HCl | HCl | | | | | | | | | | | | |
| (31AD) | N18 | 7/15/21 | 1020 | S | X | X | X | X | X | X | GRO&VOC | FDB | DRO/RRO | PCB | RORA Metals | PAH | RORA Metals | DRO/RRO | GRO/VOC/E08 | | | |
| (32AD) | N19 | | 953 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| (33AD) | N20 | | 1050 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| (34AD) | N25 | | 1034 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| (35AD) | N26 | | 947 | ↓ | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| (36AD) | TH27W1 | | 1300 | W | | | | | | | | | | X | X | X | X | X | X | X | | |
| (37AP) | TH27W2 | | 1330 | W | | | | | | | | | | X | X | X | X | X | X | X | | |
| (38AF) | | | | | | | | | | | | | | | | | | | | | | |
| (39A) | | | | | | | | | | | | | | | | | | | | | | |
| (40A) | | | | | | | | | | | | | | | | | | | | | | |

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 3
Section 4
Section 5

Received By: (1) Carey Volk
Received By: (2) Carey Volk
Received By: (3) Carey Volk
Received For Laboratory By: (4) Carey Volk

Date: 7/16/21
Date: 7/16/21
Date: 7/16/21
Date: 7/16/21

Time: 15:44

Temp Blank °C: 53.5 D30
D55 D30 2/2.6 D30
34.2 D30 or Ambient (14) 1.9 D58

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [] Commerical Delivery []

Requested Turnaround Time and/or Special Instructions:
5) 3.5 D30
6) 2.1 D58
7) 3.0 D58



Returned Bottles Inventory

Name of individual returning bottles:

Date Received:

7/16/21

Client Name:

TPEC

Received by:

RJC

Project Name:

Danger Bay

SGS PM:

CGH

| | | |
|---------------|--------------------------------------|-----------------|
| HDPE/Nalgene: | 1-L | |
| | 500-ml | |
| | 250-ml or 8-oz | |
| | 125-ml or 4-oz | |
| | 60-ml or 2-oz | |
| | other | |
| amber glass: | 1-L | 5+7 |
| | 500-ml | |
| | 250-ml or 8-oz | 12 |
| | 125-ml or 4-oz with or without septa | 8+9+8 |
| | 40-ml VOA vial | |
| | other | |
| Subtotal: | | 2449 |

Note: Returned bottles (regardless of size/pres.) are billed back at \$4/bottle unless otherwise quoted.

Amount to Invoice Client \$:

~~896~~ 196

WO#:



e-Sample Receipt Form

SGS Workorder #:

1214357

1214357

| Review Criteria | Condition (Yes, No, N/A) | Exceptions Noted below |
|--|--------------------------|--|
| Chain of Custody / Temperature Requirements | | Yes Exemption permitted if sampler hand carries/delivers. |
| Were Custody Seals intact? Note # & location | Yes | 1F |
| COC accompanied samples? | Yes | |
| DOD: Were samples received in COC corresponding coolers? | N/A | |
| N/A **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required | | |
| Temperature blank compliant* (i.e., 0-6 °C after CF)? | Yes | Cooler ID: 1 @ 5.5 °C Therm. ID: D30 |
| | Yes | Cooler ID: 2 @ 2.6 °C Therm. ID: D30 |
| | Yes | Cooler ID: 3 @ 4.2 °C Therm. ID: D30 |
| | Yes | Cooler ID: 4 @ 1.9 °C Therm. ID: D55 |
| | Yes | Cooler ID: 5 @ 3.5 °C Therm. ID: D30 |
| If samples received without a temperature blank, the "cooler temperature" will be documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "chilled" will be noted if neither is available. | | |
| *If >6°C, were samples collected <8 hours ago? | N/A | |
| If <0°C, were sample containers ice free? | N/A | |
| Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed. | | |
| Holding Time / Documentation / Sample Condition Requirements | | Note: Refer to form F-083 "Sample Guide" for specific holding times. |
| Were samples received within holding time? | Yes | |
| Do samples match COC** (i.e., sample IDs, dates/times collected)? | Yes | |
| **Note: If times differ <1hr, record details & login per COC. | | |
| ***Note: If sample information on containers differs from COC, SGS will default to COC information | | |
| Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals) | Yes | |
| Were proper containers (type/mass/volume/preservative***) used? | Yes | N/A ***Exemption permitted for metals (e.g.200.8/6020A). |
| Volatile / LL-Hg Requirements | | |
| Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples? | Yes | |
| Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)? | Yes | |
| Were all soil VOAs field extracted with MeOH+BFB? | Yes | |
| Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality. | | |
| Additional notes (if applicable): | | |
| | | |

| <u>Container Id</u> | <u>Preservative</u> | <u>Container Condition</u> | <u>Container Id</u> | <u>Preservative</u> | <u>Container Condition</u> |
|---------------------|--------------------------|----------------------------|---------------------|---------------------|----------------------------|
| 1214357034-A | No Preservative Required | OK | | | |
| 1214357034-B | No Preservative Required | OK | | | |
| 1214357034-C | Methanol field pres. 4 C | OK | | | |
| 1214357034-D | Methanol field pres. 4 C | OK | | | |
| 1214357035-A | No Preservative Required | OK | | | |
| 1214357035-B | No Preservative Required | OK | | | |
| 1214357035-C | Methanol field pres. 4 C | OK | | | |
| 1214357035-D | Methanol field pres. 4 C | OK | | | |
| 1214357036-A | HCL to pH < 2 | OK | | | |
| 1214357036-B | HCL to pH < 2 | OK | | | |
| 1214357036-C | No Preservative Required | OK | | | |
| 1214357036-D | No Preservative Required | OK | | | |
| 1214357036-E | No Preservative Required | OK | | | |
| 1214357036-F | No Preservative Required | OK | | | |
| 1214357036-G | HCL to pH < 2 | OK | | | |
| 1214357036-H | HCL to pH < 2 | OK | | | |
| 1214357036-I | HCL to pH < 2 | OK | | | |
| 1214357036-J | HCL to pH < 2 | OK | | | |
| 1214357036-K | HCL to pH < 2 | OK | | | |
| 1214357036-L | HCL to pH < 2 | OK | | | |
| 1214357036-M | HCL to pH < 2 | OK | | | |
| 1214357036-N | HCL to pH < 2 | OK | | | |
| 1214357036-O | HCL to pH < 2 | OK | | | |
| 1214357036-P | HNO3 to pH < 2 | OK | | | |
| 1214357037-A | HCL to pH < 2 | OK | | | |
| 1214357037-B | HCL to pH < 2 | OK | | | |
| 1214357037-C | No Preservative Required | OK | | | |
| 1214357037-D | No Preservative Required | OK | | | |
| 1214357037-E | No Preservative Required | OK | | | |
| 1214357037-F | No Preservative Required | OK | | | |
| 1214357037-G | HCL to pH < 2 | OK | | | |
| 1214357037-H | HCL to pH < 2 | OK | | | |
| 1214357037-I | HCL to pH < 2 | OK | | | |
| 1214357037-J | HCL to pH < 2 | OK | | | |
| 1214357037-K | HCL to pH < 2 | OK | | | |
| 1214357037-L | HCL to pH < 2 | OK | | | |
| 1214357037-M | HCL to pH < 2 | OK | | | |
| 1214357037-N | HCL to pH < 2 | OK | | | |
| 1214357037-O | HCL to pH < 2 | OK | | | |
| 1214357037-P | HNO3 to pH < 2 | OK | | | |
| 1214357038-A | HCL to pH < 2 | OK | | | |
| 1214357038-B | HCL to pH < 2 | OK | | | |
| 1214357038-C | HCL to pH < 2 | OK | | | |
| 1214357038-D | HCL to pH < 2 | OK | | | |
| 1214357038-E | HCL to pH < 2 | OK | | | |
| 1214357038-F | HCL to pH < 2 | OK | | | |
| 1214357039-A | Methanol field pres. 4 C | OK | | | |
| 1214357040-A | Methanol field pres. 4 C | OK | | | |
| 1214357041-A | Methanol field pres. 4 C | OK | | | |

Container Id

Preservative

Container
Condition

Container Id

Preservative

Container
Condition

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.

BU - The container was received with headspace greater than 6mm.

DM - The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

QN - Insufficient sample quantity provided.

Laboratory Data Review Checklist

Completed By:

Charlie Hampton

Title:

Staff Environmental Engineer

Date:

11/1/2021

Consultant Firm:

Travis/Peterson Environmental Consulting

Laboratory Name:

SGS

Laboratory Report Number:

1214357

Laboratory Report Date:

8/13/2021

CS Site Name:

Danger Bay Log Camp

ADEC File Number:

2502.38.001

Hazard Identification Number:

3796

1214357

Laboratory Report Date:

8/13/2021

CS Site Name:

Danger Bay Log Camp

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No N/A Comments:

Samples were not transferred to another laboratory.

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

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c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

All container conditions were OK.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

There were no discrepancies.

e. Data quality or usability affected?

Comments:

Data quality and usability are unaffected.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

Reference Case Narrative.

c. Were all corrective actions documented?

Yes No N/A Comments:

Reference Case Narrative.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

Data quality and usability are not affected. For specific discrepancies, see individual categories below.

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5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

One PAH, twenty-eight VOC, one RCRA metal, and two VOC (Water) analytes had LOQs above CL.

e. Data quality or usability affected?

Data quality and usability are unaffected.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes No N/A Comments:

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iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

Not applicable. No exceedance of LOQ or project specified objectives.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

Method blanks do not have data flags, as there are no impacted samples.

v. Data quality or usability affected?

Comments:

Data quality and usability are unaffected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

Percent recovery for Chromium exceeded limits by 3% for Blank Spike ID 1624707.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

RPD exceeded 20% for 1-Methylnaphthalene and Acenaphthene for Blank Spike ID 1624824.

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v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Samples impacted by high percent recovery for Chromium, as well as high RPD for 1-Methylnaphthalene and Acenaphthene are samples TH27W1 and TH27W2.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

As a result of the percent recovery for Chromium exceeding the limits by 3%, the reported concentrations of this analyte for the samples described above may represent a slight high bias. The ADEC cleanup level for this analyte is 0.35 µg/L, and the concentration of Chromium for both impacted water samples is a non-detect 10.0 µg/L. Though the data may reflect a high bias, this non-detect level is so far beyond the ADEC cleanup level that there is already uncertainty surrounding the compliance of the samples' Chromium concentration. As a result, this bias does not impact interpretation of the data. Data usability is not affected.

The exceedance of the project objectives for RPD for the above analytes represents reduced precision for their results in these two samples. Both analytes have a reported non-detect concentration of less than .05 µg/L, three orders of magnitude beneath 1-Methylnaphthalene's cleanup level of 11 µg/L, and four orders of magnitude beneath Acenaphthene's cleanup level of 530 µg/L. Because the reported non-detect concentrations are so far beneath ADEC cleanup levels, and the actual concentrations are known to be beneath these values, imprecision could not result in error that would conceal a concentration in excess of the ADEC cleanup levels. Interpretation of these data are not impacted by the RPD exceedance. Data usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Note: Leave blank if not required for project

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

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ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

Percent recovery exceeded limits for:

- Barium (MS Sample ID: 1620834 MS)
- Mercury (MS Sample ID: 1620834 MS)
- Trichlorofluoromethane (MS Sample IDs: 1625015 MS, 1625400 MS, 1625717 MS)
- Hexachlorobutadiene (MS Sample ID: 1626131 MS)
- N-Butylbenzene (MS Sample ID: 1626132 MS)

Percent recovery failed to meet limits for:

- Aroclor-1260 (MS Sample IDs: 1624284 MS, 1624453 MS)

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

RPD exceeded limits for Benzo[g,h,i]perylene for MS ID 1625109 MS.

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v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Samples impacted by a low percent recovery:

- Aroclor-1260
 - TH4-0, TH4-24, TH9-0, TH14-0, S1, S5, S8, S9, S10, S11, S26, N3, N7, N18, N19, N20, N25, N26

Samples impacted by a high percent recovery:

- Barium, Mercury
 - TH4-0, TH4-24, TH9-0, TH14-0, TH22-24, TH22-48, S1, S5, S8, S9, S10, S11, S26, N3, N7, N18, N19, N20, N25, N26
- Trichlorofluoromethane
 - TH4-0, TH4-24, TH9-0, TH14-0, TH15-48, TH15-96, TH15-72, TH16-36, TH22-24, TH22-48, TH21-0, TH21-26, TH23-0, TH24-16, TH24-0, TH24-24, TH25-24, TH25-36, TH25-96, TH27-0, TH27-24, S1, S5, S8, S9, S10, S11, S26, N3, N7, Trip Blank (s) 1, Trip Blank (s) 2, Trip Blank (s) 3
- Hexachlorobutadiene, n-Butylbenzene
 - N18, N19, N20, N25, N26

Samples impacted by a high RPD:

- Benzo[g,h,i]perylene
 - TH15-72, TH16-36, TH22-24, TH25-36, TH25-96, TH27-24, S1, S5, S8, S9, S10, S11, S26, N3, N7, N18, N19, N20, N25

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

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vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

For the samples listed above that are impacted by a high percent recovery, results may reflect a high bias. Test results for Barium, Trichlorofluoromethane, and n-Butylbenzene indicated that the concentrations of these analytes in the above samples are substantially lower than ADEC cleanup levels. Even substantial error with regard to these results would not indicate that the concentrations of these analytes approached ADEC cleanup levels at these locations. For these analytes, data usability is not affected.

Test results for Mercury and Hexachlorobutadiene indicated that non-detect concentrations fluctuated above and below ADEC cleanup levels for the samples listed above. Because of the proximity of these values to ADEC cleanup levels (including the single detect Mercury concentration exceeding the cleanup level for sample N3), the interpretation of these data may be impacted. The potential for high bias in these values presents the possibility that the values in most narrow excess of the ADEC cleanup levels are not, in reality, higher than ADEC cleanup levels at these locations. For these analytes, data usability is affected.

The high RPD exhibited for Benzo[g,h,i]perylene indicates that precision of the results for this analyte may be impacted for the above samples. All results for this analyte are non-detect, and all indicate a concentration well below the ADEC cleanup level. Because the concentration is so far beneath the cleanup level, error as a result of imprecision could not conceal a concentration in excess of the cleanup level. For this analyte, data usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

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ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

Surrogates whose percent recoveries failed to meet limits:

- 4-Bromofluorobenzene (GRO) (Samples: TH4-0, TH21-0, TH23-0, TH24-0, TH24-24, TH25-24)

Surrogates whose percent recoveries exceeded limits:

- 5a Androstane (DRO) (Sample: TH25-24)
- N-Triacontane-d62 (RRO) (Sample: TH14-0 (0% rec))
- 4-Bromofluorobenzene (GRO) (Samples: TH15-48, TH15-96, TH15-72, TH22-48)

The following samples' surrogate (4-Bromofluorobenzene) failed to meet limits for VOC analysis: TH22-48, TH21-0, TH23-0, and TH24-0.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

iv. Data quality or usability affected?

Comments:

Failure to meet percent recovery for surrogates does not impact the quality or usability of associated data.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes No N/A Comments:

Cooler ID is not indicated on the CoC.

1214357

Laboratory Report Date:

8/13/2021

CS Site Name:

Danger Bay Log Camp

iii. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

Results are equal to LOQs for both trip blanks.

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

Results are equal to LOQs for both trip blanks.

v. Data quality or usability affected?

Comments:

Because results are non-detect, concentrations for these analytes are below these values. Data quality and usability are unaffected.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No N/A Comments:

TH15-96 is a duplicate of TH15-72.
TH24-24 is a duplicate of TH-24-0.
TH25-96 is a duplicate of TH25-36.
TH27W2 is a duplicate of TH27W1.
S26 is a duplicate of S1.
N26 is a duplicate of N19.

ii. Submitted blind to lab?

Yes No N/A Comments:

1214357

Laboratory Report Date:

8/13/2021

CS Site Name:

Danger Bay Log Camp

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No N/A Comments:

The following duplicates exceeded the project objectives for RPD for the following analytes:

- TH15-96 & TH15-72
 - GRO
- TH24-0 & TH24-24
 - 4-Isopropyltoluene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)Anthracene, Benzo[a]pyrene, Benzo[b]Fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenzo[a,h]anthracene, Fluoranthene, Indeno[1,2,3-c,d]pyrene, Naphthalene, Pyrene
- TH25-36 & TH25-96
 - 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)Anthracene, Benzo[a]pyrene, Benzo[b]Fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Chrysene, Dibenzo[a,h]anthracene, Fluoranthene, Indeno[1,2,3-c,d]pyrene, Naphthalene, Pyrene

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

RPD is a metric that represents precision, measured in this case by comparing the concentrations of an analyte in two samples from the same location. The exceedances outlined above represent that the quality of the data for the given analytes and samples may be affected with regard to their precision. With the exception of one analyte listed above, this does not impact the usability of the data. For the remainder of the analytes, the results, though imprecise, are both below the cleanup levels by orders of magnitude. It can still be said with certainty that for these analytes, imprecision could not result in misrepresenting a concentration that was, in reality, in excess of the cleanup levels. For this reason, for most of the analytes, the usability of the data is not impacted.

For the Naphthalene contamination in duplicate samples TH24-0 and TH24-24, results fell below cleanup levels for one sample, but exceeded cleanup levels for the other. The noncompliant RPD for these samples and the proximity of the results to the ADEC cleanup level presents uncertainty regarding whether or not the concentration of this analyte at the sample location is in compliance. For this analyte, data usability is affected.

1214357

Laboratory Report Date:

8/13/2021

CS Site Name:

Danger Bay Log Camp

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Disposable sampling equipment used. No equipment blank is required.

i. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

Disposable sampling equipment used. No equipment blank is required.

ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

Not applicable. Disposable sampling equipment used. No equipment blank is required.

iii. Data quality or usability affected?

Comments:

Not applicable. Disposable sampling equipment used. No equipment blank is required.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Data flags are defined, though no data flags are present beyond those previously discussed.

APPENDIX D:
Photographic Log

Danger Bay Site Characterization: Photo Log –July, 2021

| | |
|---|--|
| <p>Photo of 6.5 Mile 1110 Road Saw Gas pullout.</p>  | <p>Photo showing Test Hole near dilapidated piece of heavy equipment at Old and New Cobblestone Gas site.</p>  |
| <p>Photo showing additional Test Hole dug on northern pullout, east of Cobblestone Junction.</p>  | <p>Photo showing natural sheen detected at bottom of Test Hole.</p>  |
| <p>Photo showing TH15 where TPEC observed historical contamination (DRO & RRO) at deep as 84-inches bgs. Layer of ash can be seen at approximately 12-inches bgs.</p>  | <p>Photo showing Test Hole dug at Petticoat Saw Gas site.</p>  |

Photo showing Test Holes dug outside the Equipment Shed.



Photo showing TH21 dug in center of road at the Sort Yard Circle.



Photo showing TH22 which was dug in the center of the Sort Yard Circle.



Photo showing TH23 which was dug in front of above-ground storage tanks.



Photo showing the Sort Yard Circle.



Photo showing the Sort Yard Sump area. TPEC was unable to reach refusal or collect soil samples due to wet conditions.



Photo looking down at TPEC personnel feet which standing in Sort Yard Sump area.



Photo showing TH27 at the Mile 6.5 Rock debris Area.



Photo showing petroleum sheen in groundwater of TH27.



Photo showing the drive-point monitoring well installed at TH27.



Photo showing the Test Holes at 1.0 Mile Road Saw Gas site.



Photo showing the bioremediation cells created in 2009.



APPENDIX E:
Field Notes

Location Danger Bay, AK Date 7/13/21
 Project / Client Danger Bay Site Characterization

Weather: Upper 50^s, light rain, fog
 Personnel: Casey Volk
Naal Kairhue
 Calibration: fresh air 0.0; span 100.0
 Objective: Inspect outlying sites
& dig holes in areas of potential
contamination. If necessary
samples are above 10PPM collect
lab samples. Samples will be
analyzed for GRO/VOC, DRO/RRO/
PAH. Areas where contamination
is unknown will also be analyzed
for BCRA Metals, EDB, & PCBs.

6.5 Mile 1110 Road Sam Gas

| ID | Time | PID | Request | Sampled |
|-------|------|-----|---------|---------|
| TH1-0 | 821 | 0.2 | 8 | N |
| TH1-8 | 822 | 0.3 | 8 | N |
| TH2-0 | 825 | 0.4 | 4 | N |
| TH3-0 | 831 | 0.1 | 8 | N |
| TH3-8 | 833 | 0.3 | 8 | N |

Location Danger Bay, AK Date 7/13/21

Project / Client Danger Bay Site Characterization

Notes: Encountered graywacke bedrock
overlain sandy, well graded gravel. No other

GPS

TH1 58.192865N, 152.600542W
 TH2 58.192911N, 152.600552W
 TH3 58.193091N, 152.600508W

Cobblestone Roundabout

| ID | Time | PID | Request | Sampled |
|--------|-------|-----|---------|---------|
| TH4-0 | 948/1 | 0.6 | 24 | Y |
| TH4-24 | 948/3 | 0.3 | 24 | Y |
| TH5-0 | 103/1 | 1.4 | 15 | N |
| TH5-15 | 103/6 | 0.2 | 15 | N |

Notes: TH4 collected adjacent to
dilute piece of heavy equipment.
Samples collected due to heavy
surface staining & slight odor
TH5 dug adjacent to 55 gal oil drums
No staining or odor observed. Graywacke
bedrock observed.

Location Danger Bay, AK Date 7/13/21
 Project / Client Danger Bay Site Characterization

| GPS | | Old Cobblestone Sewer Gas #1 | |
|------------------------------|------------|------------------------------|---------|
| ID | Time | PID | Request |
| TH4 | 58.184960N | 52.550729 W | |
| TH5 | 58.184896N | 52.550867 W | |
| Old Cobblestone Sewer Gas #1 | | | |
| ID | Time | PID | Request |
| TH6-0 | 1102 | 0.7 | 18 |
| TH6-18 | 1103 | 0.4 | 18 |
| TH7-0 | 1105 | 0.5 | 12 |
| TH7-12 | 1107 | 0.5 | 12 |
| TH8-0 | 1113 | 0.4 | 48 |
| TH8-24 | 1115 | 0.5 | 48 |
| TH8-48 | 1117 | 0.3 | 48 |

Notes: Encountered greywacke bedrock @ all TH. No odor or staining.

| GPS | |
|-----|--------------------------|
| TH6 | 58.185230N, 152.545062 W |
| TH7 | 58.184987N, 152.545341 W |
| TH8 | 58.185010N, 152.545171 W |

Location Danger Bay, AK Date 7/13/21
 Project / Client Danger Bay Site Characterization

| Old Cobblestone Sewer Gas #2 | | | | |
|------------------------------|------|-----|---------|---------|
| ID | Time | PID | Request | Sampled |
| TH9-0 | 1133 | 0.4 | 32 | Y |
| TH9-24 | 1135 | 0.2 | 32 | N |
| TH9-32 | 1137 | 0.2 | 32 | N |

Notes: Collected sample along surface due to dark staining. Appeared to be an area where seal had been placed. Organic shown on groundwater collect around street from previous work.

GPS TH9 58.184712N, 152.545712 W

Old Cobblestone Sewer Gas

| ID | Time | PID | Request | Sampled |
|---------|------|-----|---------|---------|
| TH10-0 | 1223 | 0.4 | 12 | N |
| TH10-12 | 1224 | 3.5 | 12 | N |
| TH11-0 | 1235 | 0.5 | 54 | N |
| TH11-24 | 1237 | 1.3 | 54 | N |
| TH11-48 | 1240 | 0.6 | 54 | N |
| TH11-54 | 1242 | 0.5 | 54 | N |

Location Danger Bay, AK Date 7/13
 Project / Client Danger Bay Site Characterization

| ID | Time | PID | Request | Sampled |
|---------|------|-----|---------|---------|
| TH12-0 | 1245 | 0.4 | 48 | N |
| TH12-24 | 1247 | 0.3 | 48 | N |
| TH12-48 | 1249 | 0.5 | 48 | N |

Notes: Encountered ash lay approx. 24" bgs @ TP11, TP11 only TH that had minimal ash that was not dominated by gravel. GW observed @ each TH. TH10 & 11 had organic ash on GW. No odor or ash present. Spoke w/ Russ Obenshyn who had 30 years work experience @ site. Did not have any knowledge that turnarounds ever were used at fueling stations. He recalled that the Cobblestone turnaround was used as a fueling station where TH4 & 5 were dug

GPS

| | |
|------|---------------------------|
| TH10 | 58.185169 N, 152.544387 W |
| TH11 | 58.185048 N, 152.544521 W |
| TH12 | 58.185056 N, 152.544350 W |

Location Danger Bay, AK Date 7/13
 Project / Client Danger Bay Site Characterization

| ID | Time | PID | Request | Sampled |
|---------|------|-------|---------|---------|
| TH13-0 | 1345 | 2.4 | 26 | N |
| TH13-24 | 1348 | 1.4 | 26 | N |
| TH14-0 | 1353 | 1.2 | 22 | Y |
| TH14-22 | 1354 | 1.5 | 22 | N |
| TH15-0 | | | | |
| TH15-0 | 1423 | 0.8 | 84 | N |
| TH15-24 | 1425 | 94.4 | 84 | N |
| TH15-48 | 1426 | 2,168 | 84 | Y |
| TH15-72 | 1445 | 3,264 | 84 | Y * |
| TH15-84 | 1446 | 1,578 | 84 | *N |

Notes: * Duplicate sample (TH15-96). Collected sample @ TH14-0 due to staining. TH15 was similar to TH11 in terms of soil profile. Strong odor observed. No GW, however a perched GW table was seeping into TH @ approx. 12" bgs.

GPS

| | |
|------|---------------------------|
| TH13 | 58.184817 N, 152.550797 W |
| TH14 | 58.184950 N, 152.550842 W |
| TH15 | 58.185124 N, 152.550870 W |

Location: Danger Bay, AK Date: 7/13
 Project / Client: Danger Bay Site Characterization

| Petticoat | | | |
|-----------|------|----------------|-------------------|
| ID | Time | PID | Request / Sampled |
| TH16-0 | 1540 | 0.5 | 60 N |
| TH16-12 | 1541 | 0.2 | 60 N |
| TH16-36 | 1543 | 0.2 | 60 Y |
| TH16-60 | 1544 | 1.9 | 60 N |
| TH17-0 | 1619 | 0.3 | 70 N |
| TH17-24 | 1621 | 0.2 | 70 N |
| TH17-48 | 1622 | 1.5 | 70 N |
| TH17-70 | 1623 | 1.4 | 70 N |

Notes: Ash layer @ 48" bgs @ TH17 but not fully present @ TH16. Some ash observed @ 2'6" bgs @ TH16. Slight ash observed @ TH16 @ 36" bgs. Collected a sample @ TH16-36. Request near bedrock. No GW

| GPS | |
|------|-------------------------|
| TH16 | 58.183637N, 152.543237W |
| TH17 | 58.183482N, 152.543185W |

Project / Client: Danger Bay Site Characterization

| Equipment Repair Yard | | | |
|-----------------------|------|-----|-------------------|
| ID | Time | PID | Request / Sampled |
| TH18-0 | 1722 | 0.1 | 42 N |
| TH18-24 | 1723 | 0.2 | 42 N |
| TH18-42 | 1724 | 0.3 | 42 N |
| TH19-0 | 1731 | 0.2 | 28 N |
| TH19-24 | 1732 | 0.2 | 28 N |
| TH20-0 | 1737 | 0.2 | 25 N |
| TH20-24 | 1738 | 0.2 | 25 N |

Notes: Lubed platform/bases in front of current equipment shed. Dug three TH around each side of platform. No ash or debris observed. Greynacks rock made up all of TH19 & 20. GW in TH18 had organic stream w/ no odor.

| GPS | |
|------|-------------------------|
| TH18 | 58.181048N, 152.554562W |
| TH19 | 58.181097N, 152.554651W |
| TH20 | 58.181045N, 152.554723W |

Location Danger Bay, AK Date 7/13/21
 Project / Client Danger Bay Site Characterization

Sort Yard Circle

| ID | Time | PID | Referred | Sampled |
|---------|------|------|----------|---------|
| TH21-0 | 1837 | 7.1 | 16 | Y |
| TH21-16 | 1838 | 9.5 | 16 | Y |
| TH22-0 | 1858 | 37.0 | 48 | N |
| TH22-24 | 1900 | 45.2 | 48 | Y |
| TH22-48 | 1901 | 41.1 | 48 | Y |

Notes: TH21 dug in center of road surrounding the John Deere tractor used as a sort shovel. Sheen observed throughout road. No odor observed while digging TH. Collected sample that is representative of road. TH22 in center of road had an odor. Samples collected contained large amounts of organic material (weed).

GPS

| | |
|------|-----------------------------|
| TH21 | 58.17 8342 N, 152.55 7453 W |
| TH22 | 58.17 8540 N, 152.55 7418 W |

Location Danger Bay, AK Date 7/13/21
 Project / Client Danger Bay Site Characterization

Former AST

| ID | Time | PID | Referred | Sampled |
|---------|------|------|----------|---------|
| TH23-0 | 1958 | 8.6 | > 72 | Y |
| TH23-24 | 2000 | 1.3 | > 72 | N |
| TH23-48 | 2001 | 0.5 | > 72 | N |
| TH23-72 | 2002 | 1.2 | > 72 | N |
| TH24-0 | 2020 | 12.8 | 16 | Y * |
| TH24-16 | 2021 | 0.8 | 16 | Y |
| TH25-0 | 2103 | 5.3 | > 72 | N |
| TH25-12 | 2104 | 6.8 | > 72 | N |
| TH25-24 | 2106 | 7.3 | > 72 | Y |

Notes: TH23 dug in front of active AST. Strong odor observed near the surface. Did not encounter GW or refusal. Collected sample due to odor & surrounding surface sheen. TH25 dug in center of beaver slide. Collected sample plus duplicate (TH24-24). Observed surface sheen around TH. TH24-0 & duplicate collected in 3' of surface mud & organics were collected.

| | | | | |
|---------|------|------|------|--------|
| TH25-36 | 2106 | 11.0 | > 72 | Y |
| TH25-48 | 2108 | 39.6 | 772 | Ref. N |

Location Danger Bay, AK Date 7/13/21
 Project / Client Danger Bay Site Characterization

| ID | Time | PID | Reqs | Sampled |
|---------|------|-----|------|---------|
| TH25-72 | 2126 | 1.2 | > 72 | N |

Notes: TH25 had a strong odor near the surface. TH did ~~not~~ have GW or refusal Collected deep sample (TH25-96) @ TH25-36 Trace amounts of ash observed @ 36".

GPS

| | |
|------|---------------------------|
| TH23 | 58.178231 N, 152.558089 W |
| TH24 | 58.178193 N, 152.557772 W |
| TH25 | 58.178175 N, 152.557944 W |

Sample Summary

| | |
|---------------|--|
| TH4-0 @ 1000 | GRO, VOC, EDB, PCB, DRO, RRO, RCRA Metals |
| TH4-24 @ 1010 | GRO, VOC, EDB, PCB, DRO, RRO, RCRA Metals |
| TH9-0 @ 1143 | GRO, VOC, EDB, PCB, QRO, RRO, RCRA Metals, PAH |
| TH14-0 @ 1400 | GRO, VOC, DRO, RRO, PCB, RCRA Metals |

Location Danger Bay, AK Date 7/13/21

Project / Client Danger Bay Site Characterization

| | |
|----------------|---|
| TH15-48 @ 1500 | GRO, VOC, DRO, RRO |
| TH15-96 @ 1505 | GRO, VOC, DRO, RRO, PAH |
| TH15-72 @ 1510 | GRO, VOC, DRO, RRO, PAH |
| TH16-36 @ 1639 | GRO, VOC, DRO, RRO, PAH |
| TH22-24 @ 1915 | GRO, VOC, RRO, DRO |
| TH22-48 @ 1916 | PAH, RCRA Metals, GRO, VOC, DRO, RRO, RCRA Metals |
| TH21-0 @ 1939 | GRO, VOC, DRO, RRO |
| TH21-16 @ 1940 | GRO, VOC, DRO, RRO |
| TH23-0 @ 2012 | GRO, VOC, DRO, RRO |
| TH24-16 @ 2035 | GRO, VOC, DRO, RRO |
| TH24-0 @ 2037 | GRO, VOC, DRO, RRO |
| TH24-24 @ 2040 | GRO, VOC, DRO, RRO |
| TH25-24 @ 2141 | GRO, VOC, DRO, RRO |
| TH25-36 @ 2144 | GRO, VOC, DRO, RRO, PAH |
| TH25-96 @ 2147 | GRO, VOC, DRO, RRO, PAH |

Location: Danger Bay, AK Date: 7/14/21
 Project / Client: Danger Bay Site Characterization

Weather: low 60's, sunny, slight breeze

Personnel: Caray Volk
Nate Kaahua

Calibration: fresh air O₂
 Objective: Complete characterization
the outlyer sites. Then begin
collecting heated headspace
sampled from North & Smith
Treatment Cells.

Mile 6.5 Rock Debris Area

| ID | Time | PID | Requred | Sampled |
|----------------|------|-------|---------|---------|
| TH26-0 | 1012 | 4.9 | 6" | N |
| TH26-6 | 1013 | 9.1 | 6" | N |
| GW 24 { TH27-0 | 1025 | 12.3 | 2430 | Y |
| TH27-14 | 1027 | 177.8 | 2430 | Y |
| TH28-0 | 1039 | 6.7 | 12 | N |
| TH29-12 | 1041 | 9.6 | 12 | N |

Location: Danger Bay, AK Date: 7/14/21
 Project / Client: Danger Bay Site Characterization

Notes: TH17 had a slight odor
& screen. Collected sample @ surface
& @ 2' which also happens to be the
GW level. TH was dug to 36"
Installed monitoring well @ 1130.
Remaining TH had no odor on GW.

GPS

TR26 53.206516N, 152.5015913W
 TH27 58.206510N, 152.501430W
 TH28 58.206419N, 152.501512W

1.0 Mile 100 Road Saw Gas

| ID | Time | PID | Requred | Sampled |
|---------|------|-----|---------|---------|
| TH29-0 | 1301 | 0.7 | 6" | N |
| TH29-6 | 1302 | 0.3 | 6" | N |
| TH30-0 | 1307 | 0.6 | 12" | N |
| TH30-12 | 1308 | 0.5 | 12" | N |
| TH31-0 | 1310 | 0.7 | >60" | N |
| TH31-24 | 1311 | 0.3 | >60" | N |
| TH31-48 | 1312 | 0.2 | >60" | N |
| TH31-60 | 1313 | 0.3 | >60" | N |

Location Danger Bay, AK Date 7/14/21
 Project / Client Danger Bay Site Characterization

Notes: TH31 had ash layer @ approx 2' bgs. Did not encounter GW on refusal. All three TH had no water on GW. Have confirmation that the pullout sampled was location of old fuel station.

GPS
 TH29 58.149318N, 152.557776W
 TH30 58.149211N, 152.557853W
 TH31 58.149027N, 152.557781W

NH9x85 Treatment Cell S 115x85
 South

| ID | PID | ID | PID | ID | PID |
|----|-----|----|-----|----|-----|
| 1 | 0.9 | 10 | 0.6 | 19 | 0.3 |
| 2 | 0.5 | 11 | 0.6 | 20 | 0.5 |
| 3 | 0.3 | 12 | 0.2 | 21 | 0.3 |
| 4 | 0.5 | 13 | 0.2 | 22 | 0.2 |
| 5 | 0.7 | 14 | 0.4 | 23 | 0.3 |
| 6 | 0.4 | 15 | 0.3 | 24 | 0.4 |
| 7 | 0.4 | 16 | 0.4 | 25 | 0.5 |
| 8 | 0.6 | 17 | 0.3 | | |
| 9 | 0.7 | 18 | 0.1 | | |

Location Danger Bay, AK Date 7/14/21
 Project / Client Danger Bay Site Characterization

North

| ID | PID | ID | PID | ID | PID |
|----|-----|----|-----|----|-----|
| 1 | 0.4 | 10 | 0.2 | 19 | 0.1 |
| 2 | 1.1 | 11 | 1.4 | 20 | 0.7 |
| 3 | 1.8 | 12 | 0.5 | 21 | 0.8 |
| 4 | 0.2 | 13 | 0.7 | 22 | 0.9 |
| 5 | 0.2 | 14 | 1.1 | 23 | 0.5 |
| 6 | 0.9 | 15 | 1.0 | 24 | 1.1 |
| 7 | 1.7 | 16 | 0.8 | 25 | 2.2 |
| 8 | 0.4 | 17 | 1.2 | | |
| 9 | 0.3 | 18 | 0.6 | | |

North Cell

South Cell



| | | |
|----|----|---|
| 19 | 10 | 5 |
| 14 | 9 | 4 |
| 23 | 8 | 3 |
| 22 | 7 | 2 |
| 21 | 6 | 1 |
| 25 | 5 | |
| 24 | 4 | |
| 23 | 3 | |
| 22 | 2 | |
| 21 | 1 | |

Location Danger Bay, AK Date 7/15/21
 Project / Client Danger Bay Site Characterization

Weather: low 60s, sunny
 Personnel: Casey Volk
 Natalie Kaurhua
 Calibration: fresh air O₂
 Objective: Collect laboratory samples from Treatment Cell. Cell divided into North & South Cells. Collect six samples & one duplicate from each cell. Head to TH27 to collect GW samples from deepwater monitoring well. Use bladder pump for samples & peristaltic pump for purging.

South Treatment Cell

- S1 collected @ 840
- S5 collected @ 900
- S8 collected @ 855
- S9 collected @ 920
- S10 collected @ 913
- S11 collected @ 945
- * S26 collected @ 930

* duplicate sample collected from S1.

Location Danger Bay, AK Date 7/15/21
 Project / Client Danger Bay Site Characterization

North Treatment Cell

- N3 collected @ 1015
- N7 collected @ 1045
- N18 collected @ 1020
- N19 collected @ 953
- N20 collected @ 1050
- N25 collected @ 1034
- * N26 collected @ 947

* duplicate sample collected from N19.

Notes: All samples collected from North & South Treatment Cells were analyzed for DRO, BRO, GRO, VOC, PCRA Metals, PAH, EDB, & PCB.

Test hole 27 GW

Length of Well: 7.5' or 90"
 Depth to GW: 4.8' or 57.6"
 Water in Well: 90" - 57.6" = 32.4"

Volume: $3.14 (.375)^2 (32.4) = 14.3 \text{ m}^3$
 Gallons: $14.3 / 2.31 = 6.19$

Purge Amount: $0.062(3) = .185$

APPENDIX F:
Conceptuel Site Model

Appendix A - Human Health Conceptual Site Model Scoping Form and Standardized Graphic

Site Name:

File Number:

Completed by:

Introduction

The form should be used to reach agreement with the Alaska Department of Environmental Conservation (DEC) about which exposure pathways should be further investigated during site characterization. From this information, summary text about the CSM and a graphic depicting exposure pathways should be submitted with the site characterization work plan and updated as needed in later reports.

General Instructions: Follow the italicized instructions in each section below.

1. General Information:

Sources (*check potential sources at the site*)

- | | |
|--|--|
| <input type="checkbox"/> USTs | <input type="checkbox"/> Vehicles |
| <input type="checkbox"/> ASTs | <input type="checkbox"/> Landfills |
| <input type="checkbox"/> Dispensers/fuel loading racks | <input type="checkbox"/> Transformers |
| <input type="checkbox"/> Drums | <input type="checkbox"/> Other: <input type="text"/> |

Release Mechanisms (*check potential release mechanisms at the site*)

- | | |
|---------------------------------|--|
| <input type="checkbox"/> Spills | <input type="checkbox"/> Direct discharge |
| <input type="checkbox"/> Leaks | <input type="checkbox"/> Burning |
| | <input type="checkbox"/> Other: <input type="text"/> |

Impacted Media (*check potentially-impacted media at the site*)

- | | |
|--|--|
| <input type="checkbox"/> Surface soil (0-2 feet bgs*) | <input type="checkbox"/> Groundwater |
| <input type="checkbox"/> Subsurface soil (>2 feet bgs) | <input type="checkbox"/> Surface water |
| <input type="checkbox"/> Air | <input type="checkbox"/> Biota |
| <input type="checkbox"/> Sediment | <input type="checkbox"/> Other: <input type="text"/> |

Receptors (*check receptors that could be affected by contamination at the site*)

- | | |
|--|--|
| <input type="checkbox"/> Residents (adult or child) | <input type="checkbox"/> Site visitor |
| <input type="checkbox"/> Commercial or industrial worker | <input type="checkbox"/> Trespasser |
| <input type="checkbox"/> Construction worker | <input type="checkbox"/> Recreational user |
| <input type="checkbox"/> Subsistence harvester (i.e. gathers wild foods) | <input type="checkbox"/> Farmer |
| <input type="checkbox"/> Subsistence consumer (i.e. eats wild foods) | <input type="checkbox"/> Other: <input type="text"/> |

* bgs - below ground surface

2. Exposure Pathways: *(The answers to the following questions will identify complete exposure pathways at the site. Check each box where the answer to the question is "yes".)*

a) Direct Contact -

1. Incidental Soil Ingestion

Are contaminants present or potentially present in surface soil between 0 and 15 feet below the ground surface? (Contamination at deeper depths may require evaluation on a site-specific basis.)

If the box is checked, label this pathway complete:

Comments:

2. Dermal Absorption of Contaminants from Soil

Are contaminants present or potentially present in surface soil between 0 and 15 feet below the ground surface? (Contamination at deeper depths may require evaluation on a site specific basis.)

Can the soil contaminants permeate the skin (see Appendix B in the guidance document)?

If both boxes are checked, label this pathway complete:

Comments:

b) Ingestion -

1. Ingestion of Groundwater

Have contaminants been detected or are they expected to be detected in the groundwater, or are contaminants expected to migrate to groundwater in the future?

Could the potentially affected groundwater be used as a current or future drinking water source? Please note, only leave the box unchecked if DEC has determined the groundwater is not a currently or reasonably expected future source of drinking water according to 18 AAC 75.350.

If both boxes are checked, label this pathway complete:

Comments:

2. Ingestion of Surface Water

Have contaminants been detected or are they expected to be detected in surface water, or are contaminants expected to migrate to surface water in the future?

Could potentially affected surface water bodies be used, currently or in the future, as a drinking water source? Consider both public water systems and private use (i.e., during residential, recreational or subsistence activities).

If both boxes are checked, label this pathway complete:

Comments:

3. Ingestion of Wild and Farmed Foods

Is the site in an area that is used or reasonably could be used for hunting, fishing, or harvesting of wild or farmed foods?

Do the site contaminants have the potential to bioaccumulate (see Appendix C in the guidance document)?

Are site contaminants located where they would have the potential to be taken up into biota? (i.e. soil within the root zone for plants or burrowing depth for animals, in groundwater that could be connected to surface water, etc.)

If all of the boxes are checked, label this pathway complete:

Comments:

c) Inhalation-

1. Inhalation of Outdoor Air

Are contaminants present or potentially present in surface soil between 0 and 15 feet below the ground surface? (Contamination at deeper depths may require evaluation on a site specific basis.)

Are the contaminants in soil volatile (see Appendix D in the guidance document)?

If both boxes are checked, label this pathway complete:

Comments:

2. Inhalation of Indoor Air

Are occupied buildings on the site or reasonably expected to be occupied or placed on the site in an area that could be affected by contaminant vapors? (within 30 horizontal or vertical feet of petroleum contaminated soil or groundwater; within 100 feet of non-petroleum contaminated soil or groundwater; or subject to "preferential pathways," which promote easy airflow like utility conduits or rock fractures)

Are volatile compounds present in soil or groundwater (see Appendix D in the guidance document)?

If both boxes are checked, label this pathway complete:

Comments:

3. Additional Exposure Pathways: *(Although there are no definitive questions provided in this section, these exposure pathways should also be considered at each site. Use the guidelines provided below to determine if further evaluation of each pathway is warranted.)*

Dermal Exposure to Contaminants in Groundwater and Surface Water

Dermal exposure to contaminants in groundwater and surface water may be a complete pathway if:

- Climate permits recreational use of waters for swimming.
- Climate permits exposure to groundwater during activities, such as construction.
- Groundwater or surface water is used for household purposes, such as bathing or cleaning.

Generally, DEC groundwater cleanup levels in 18 AAC 75, Table C, are deemed protective of this pathway because dermal absorption is incorporated into the groundwater exposure equation for residential uses.

Check the box if further evaluation of this pathway is needed:

Comments:

Inhalation of Volatile Compounds in Tap Water

Inhalation of volatile compounds in tap water may be a complete pathway if:

- The contaminated water is used for indoor household purposes such as showering, laundering, and dish washing.
- The contaminants of concern are volatile (common volatile contaminants are listed in Appendix D in the guidance document.)

DEC groundwater cleanup levels in 18 AAC 75, Table C are protective of this pathway because the inhalation of vapors during normal household activities is incorporated into the groundwater exposure equation.

Check the box if further evaluation of this pathway is needed:

Comments:

Inhalation of Fugitive Dust

Inhalation of fugitive dust may be a complete pathway if:

- Nonvolatile compounds are found in the top 2 centimeters of soil. The top 2 centimeters of soil are likely to be dispersed in the wind as dust particles.
- Dust particles are less than 10 micrometers (Particulate Matter - PM₁₀). Particles of this size are called respirable particles and can reach the pulmonary parts of the lungs when inhaled.

DEC human health soil cleanup levels in Table B1 of 18 AAC 75 are protective of this pathway because the inhalation of particulates is incorporated into the soil exposure equation.

Check the box if further evaluation of this pathway is needed:

Comments:

Direct Contact with Sediment

This pathway involves people's hands being exposed to sediment, such as during some recreational, subsistence, or industrial activity. People then incidentally ingest sediment from normal hand-to-mouth activities. In addition, dermal absorption of contaminants may be of concern if the the contaminants are able to permeate the skin (see Appendix B in the guidance document). This type of exposure should be investigated if:

- Climate permits recreational activities around sediment.
- The community has identified subsistence or recreational activities that would result in exposure to the sediment, such as clam digging.

Generally, DEC direct contact soil cleanup levels in 18 AAC 75, Table B1, are assumed to be protective of direct contact with sediment.

Check the box if further evaluation of this pathway is needed:

Comments:

4. Other Comments *(Provide other comments as necessary to support the information provided in this form.)*

[Empty rectangular box for providing other comments]

HUMAN HEALTH CONCEPTUAL SITE MODEL GRAPHIC FORM

Site: _____

Completed By: _____
 Date Completed: _____

Instructions: Follow the numbered directions below. Do not consider contaminant concentrations or engineering/land use controls when describing pathways.

| (1) Media | (2) Transport Mechanisms |
|--|---|
| <input type="checkbox"/> Surface Soil (0-2 ft bgs) | <input type="checkbox"/> Direct release to surface soil <i>check soil</i> <input type="checkbox"/> Migration to subsurface <i>check soil</i> <input type="checkbox"/> Migration to groundwater <i>check groundwater</i> <input type="checkbox"/> Volatilization <i>check air</i> <input type="checkbox"/> Runoff or erosion <i>check surface water</i> <input type="checkbox"/> Uptake by plants or animals <i>check biota</i> <input type="checkbox"/> Other (list): _____ |
| <input type="checkbox"/> Subsurface Soil (2-15 ft bgs) | <input type="checkbox"/> Direct release to subsurface soil <i>check soil</i> <input type="checkbox"/> Migration to groundwater <i>check groundwater</i> <input type="checkbox"/> Volatilization <i>check air</i> <input type="checkbox"/> Uptake by plants or animals <i>check biota</i> <input type="checkbox"/> Other (list): _____ |
| <input type="checkbox"/> Ground-water | <input type="checkbox"/> Direct release to groundwater <i>check groundwater</i> <input type="checkbox"/> Volatilization <i>check air</i> <input type="checkbox"/> Flow to surface water body <i>check surface water</i> <input type="checkbox"/> Flow to sediment <i>check sediment</i> <input type="checkbox"/> Uptake by plants or animals <i>check biota</i> <input type="checkbox"/> Other (list): _____ |
| <input type="checkbox"/> Surface Water | <input type="checkbox"/> Direct release to surface water <i>check surface water</i> <input type="checkbox"/> Volatilization <i>check air</i> <input type="checkbox"/> Sedimentation <i>check sediment</i> <input type="checkbox"/> Uptake by plants or animals <i>check biota</i> <input type="checkbox"/> Other (list): _____ |
| <input type="checkbox"/> Sediment | <input type="checkbox"/> Direct release to sediment <i>check sediment</i> <input type="checkbox"/> Resuspension, runoff, or erosion <i>check surface water</i> <input type="checkbox"/> Uptake by plants or animals <i>check biota</i> <input type="checkbox"/> Other (list): _____ |

(3) Check all exposure media identified in (2).

Exposure Media

soil

groundwater

air

surface water

sediment

biota

(4) Check all pathways that could be complete. The pathways identified in this column **must** agree with Sections 2 and 3 of the Human Health CSM Scoping Form.

Exposure Pathway/Route

Incidental Soil Ingestion

Dermal Absorption of Contaminants from Soil

Inhalation of Fugitive Dust

Ingestion of Groundwater

Dermal Absorption of Contaminants in Groundwater

Inhalation of Volatile Compounds in Tap Water

Inhalation of Outdoor Air

Inhalation of Indoor Air

Inhalation of Fugitive Dust

Ingestion of Surface Water

Dermal Absorption of Contaminants in Surface Water

Inhalation of Volatile Compounds in Tap Water

Direct Contact with Sediment

Ingestion of Wild or Farmed Foods

(5) Identify the receptors potentially affected by each exposure pathway: Enter "C" for current receptors, "F" for future receptors, "C/F" for both current and future receptors, or "I" for insignificant exposure.

Current & Future Receptors

| | Residents (adults or children) | Commercial or Industrial workers | Site visitors, trespassers, or recreational users | Construction workers | Farmers or subsistence harvesters | Subsistence consumers | Other |
|---|--------------------------------|----------------------------------|---|----------------------|-----------------------------------|-----------------------|-------|
| <input type="checkbox"/> Incidental Soil Ingestion | | | | | | | |
| <input type="checkbox"/> Dermal Absorption of Contaminants from Soil | | | | | | | |
| <input type="checkbox"/> Inhalation of Fugitive Dust | | | | | | | |
| <input type="checkbox"/> Ingestion of Groundwater | | | | | | | |
| <input type="checkbox"/> Dermal Absorption of Contaminants in Groundwater | | | | | | | |
| <input type="checkbox"/> Inhalation of Volatile Compounds in Tap Water | | | | | | | |
| <input type="checkbox"/> Inhalation of Outdoor Air | | | | | | | |
| <input type="checkbox"/> Inhalation of Indoor Air | | | | | | | |
| <input type="checkbox"/> Inhalation of Fugitive Dust | | | | | | | |
| <input type="checkbox"/> Ingestion of Surface Water | | | | | | | |
| <input type="checkbox"/> Dermal Absorption of Contaminants in Surface Water | | | | | | | |
| <input type="checkbox"/> Inhalation of Volatile Compounds in Tap Water | | | | | | | |
| <input type="checkbox"/> Direct Contact with Sediment | | | | | | | |
| <input type="checkbox"/> Ingestion of Wild or Farmed Foods | | | | | | | |

Appendix G :
Qualifications of the Environmental Professional

Casey Volk

Staff Environmental Scientist

Travis/Peterson Environmental Consulting, Inc.

3305 Arctic Boulevard, Suite 102

Anchorage, Alaska 99503

Telephone (907) 522-4337

Fax (907) 522-4313

cvolk@tpeci.com

EDUCATION

University of Nevada, Reno

BS- Wildlife Ecology & Conservation

Reno, Nevada (2010-2014)

REPRESENTATIVE EXPERIENCE

Staff Environmental Scientist

Travis/Peterson Environmental Consulting, Inc.

Staff Environmental Scientist for an environmental consulting and engineering firm. General duties include report writing, conducting baseline environmental research, site characterization and remediation, biological assessments and species data collection, and interfacing with regulatory agencies and clients. Other duties include performing environmental records reviews, site assessments, biological analysis, soil sampling, wetlands delineations, and site reconnaissance.

Fish Technician II

Alaska Department of Fish & Game

Fish Technician duties included field technician supervision, field logistics, data entry and preliminary data analysis, and collection of biological samples. Additional duties included the installation and usage of telemetry scanning for mortality rates among Alaskan salmon. Employed while attending college.

CERTIFICATIONS

| | |
|------------------------------------|--|
| The Associated General Contractors | Alaska Certified Erosion & Sediment Control Lead, 5/2019 |
| Environmental Management Inc | HAZWOPER 40-hr. Initial Course, 5/2019 |
| Satori Group | HAZWOPER 8-hr. Refresher 2020 |

EMPLOYMENT RECORD

4/2019 - Present

Travis/Peterson Environmental Consulting, Inc.

7/2015 - 4/2019

Spectra Venue Management

5/2012 - 7/2015

Alaska Department of Fish & Game (Seasonal Permanent)

Michael D. Travis, P. E.

Environmental Engineer

Mike has over 38 years of experience in environmental projects in Alaska. He currently is a Principal owner in Travis/Peterson Environmental Consulting, Inc., specializing in site remediation throughout Alaska.

Mike's vast education and expertise with State agencies, Federal laws and statutes, and working with local communities enables him to effectively manage projects throughout Alaska. He is a registered civil engineer in Alaska.

Work Experience

Principal, Travis/Peterson Environmental Consulting, Inc. (1997 to present)

Responsibilities: Co-Owner and Principal of an environmental engineering consulting firm. Provided a wide range of environmental and engineering services for private and governmental agencies. Performed environmental impact analysis for new and expanded highways, airports, mines, and power plants. Impact analysis involved air and noise modeling, storm water planning, public involvement, and social-economic analysis. Designed corrective action plans to respond to hazardous waste spills and assess the area of contamination. Performed Phase I and Phase II environmental site assessments for properties throughout Alaska. Designed soil and groundwater remediation systems.

Chief of Professional Services, Alaska Department of Transportation and Public Facilities (DOT&PF) (1996-1997)

Responsibilities: Supervised the contracting and negotiating of engineering and construction projects within the Central Region of DOT&PF. Assisted in the final design of the Whittier Tunnel Access project. Provided environmental expertise for DOT&PF defense of a lawsuit within the Ninth Circuit Court of Appeals.

Vice President, AGRA Earth and Environmental, Inc. (1991 – 1996)

Responsibilities: Managed geotechnical and environmental engineering offices in Fairbanks and Anchorage, Alaska. Reviewed final work products before submitting them to clients. Designed hazardous waste remediation treatment systems for remote canneries. Headed the Whittier Tunnel Access Environmental Impact Statement project team and lead all public relations. Performed Environmental Assessments to fulfill requirements of the National Environmental Policy Act for construction projects throughout Alaska. Environmental Manager for the Whittier Tunnel EIS. Supervised 30 employees. Developed corrective action plans for spill sites.



Education

University of Alaska Fairbanks

B.S. Fishery Biology -1981

M.S. Environmental Quality Science - 1986

Certifications

Hazardous Waste Operations and Emergency Response Certification, Supervisors Course

Registered Civil Engineer in Alaska. Registration number CE 8048

Certified Fishery Scientist. American Fishery Society