

Limited Site Investigation

EvRo Community Improvement Area
Evans and Rosedale
Fort Worth, Tarrant County, Texas

October 21, 2022
Terracon Project No. 95207647, Task 3-6



Prepared for:
City of Fort Worth
Fort Worth, Texas

Prepared by:
Terracon Consultants, Inc.
Fort Worth, Texas
TBPG Firm No. 50058

terracon.com

Terracon

October 21, 2022



City of Fort Worth
1000 Throckmorton Street
Fort Worth, Texas 76102

Attn: Ms. Hayley Mann
P: (817) 392-5146
Hayley.Mann@fortworthtexas.gov

Re: Limited Site Investigation
Fort Worth Brownfield Assessment Grant
EvRo Community Improvement Area
Evans and Rosedale
Fort Worth, Tarrant County, Texas
Terracon Project No. 95207647, Task 3-6
Latitude/Longitude: 32.734413 / -97.318754
EPA Cooperative Agreement No. BF-01F87601
EPA ACRES ID No. 15920

Dear Ms. Mann:

Terracon Consultants, Inc. (Terracon) is pleased to submit our report of Limited Site Investigation (LSI) activities completed at the site referenced above. This investigation was performed in accordance with Terracon's Site-Specific Sampling and Analysis Plan (SSAP) dated July 12, 2022 developed for investigations associated with the City of Fort Worth Brownfields Assessment Grant.

Terracon appreciates this opportunity to provide environmental consulting services to the City of Fort Worth. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.


Kyle C. Lindquist
Project Scientist




Scott M. Kolodziej, P.G.
Principal / Department Manager

Terracon Consultants, Inc. 2501 East Loop 820 North Fort Worth, Texas 76118
P (817) 268 8600 F (817) 268 8602 terracon.com

Environmental

Facilities

Geotechnical

Materials

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EXECUTIVE SUMMARY

This Limited Site Investigation (LSI) was performed in accordance with the scope of services outlined in Terracon's Site-Specific Sampling and Analysis Plan (SSAP), dated July 12, 2022, developed for the City of Fort Worth Brownfields Assessment Grant. A total of 11 soil borings (SB-1 through SB-11), two monitoring wells (MW-1 and MW-2), and six soil gas probes (SGP-1 through SGP-6) were installed at the site to evaluate potential releases associated with recognized environmental conditions (RECs) identified in the Terracon Consultants, Inc. (Terracon) Phase I Environmental Site Assessment (ESA – Terracon Project No. 95207647, Task 3A15), dated May 13, 2022. Soil and soil gas samples were collected and analyzed in accordance with the procedures outlined in Section 3.

A summary of our findings, conclusions, and recommendations is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

Findings

Terracon encountered clay from beneath the grass surfaces to approximately 16 to 19 feet below grade surface (bgs) in the deeper soil borings/monitoring wells. Gray shale bedrock was encountered from approximately 16 to 19 feet bgs until termination of the deeper soil borings/monitoring wells at depths of approximately 25 feet bgs.

Terracon made multiple attempts to collect groundwater samples from monitoring well MW-1 and MW-2. As of October 7, 2022 (24 days after monitoring well installation), the monitoring wells did not yield groundwater; therefore, groundwater was unable to be evaluated as a part of this investigation. Terracon submitted additional soil samples from monitoring wells MW-1 and MW-2, which were collected from just above the gray limestone bedrock interval to evaluate the potential for impacts. This interval was considered the most likely to represent a perched water zone, if seasonally present.

Total Petroleum Hydrocarbons (TPH)

TPH concentrations were not detected above laboratory sample detection limits (SDLs) in the soil samples collected from MW-1, MW-2, SGP-5, and SGP-6.

Volatile Organic Compounds (VOCs)

VOC concentrations were not detected above laboratory SDLs in the soil samples collected from MW-1, MW-2, SGP-5, and SGP-6, with the exception of methylene chloride and J-flagged (estimated) toluene concentrations in select samples. The detected concentrations of methylene chloride and toluene were below their applicable Texas Risk Reduction Program (TRRP) Action

Levels. Methylene chloride is considered a common analytical laboratory contaminant; therefore, the concentrations of this chemical detected in the samples may be attributable to or biased by laboratory interference.

The dry-cleaning solvent tetrachloroethene (PCE) was detected at concentrations above the laboratory detection limit in the soil gas samples collected from SGP-1, SGP-2, SGP-3, SGP-5, and SGP-6; however, select daughter products (i.e., trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride) were not detected. The detected PCE concentrations ranging from 1.59 mg/kg to 4.88 mg/kg were well below the calculated Target Concentration of 2,100 µg/m³ and EPA VISL of 1,390 µg/m³. It is noted that the PCE detections were flagged as being present in the laboratory method blank, suggesting a potential for laboratory interference. Benzene, toluene, ethylbenzene, and xylenes (BTEX) constituents and other petroleum hydrocarbon VOCs were detected at concentrations above laboratory detection limits in the soil gas samples collected from SGP-1 through SGP-6. However, the detected concentrations did not exceed their respective Target Concentrations, with the exception of the detected benzene concentration in SGP-4. The detected benzene concentration of 53,000 µg/m³ was above the Environmental Protection Agency (EPA) Vapor Intrusion Screening Level (VISL) of 120 µg/m³ and the TRRP Risk Based Exposure Limit (RBEL) of 370 µg/m³.

Total Lead

Total lead was detected at concentrations above the laboratory SDL in the soil samples collected from soil borings MW-1, MW-2, SB-1 through SB-11, SGP-1, and SGP-2. The lead concentrations in 12 of 15 samples collected from 0 to 1 foot bgs in these borings exceeded the TRRP Action Level of 15 mg/kg, which is based on the Texas-Specific Background Concentration for lead. Detected lead concentrations that exceeded the Action Level of 15 mg/kg (the TSBC), ranged from 18.1 mg/kg (SB-8 at 0 to 1 foot bgs) to 440 mg/kg (SB-5 at 0 to 1 foot bgs). The maximum lead concentration of 440 mg/kg detected in boring SB-5 was below the TRRP Residential Tier 1 ^{Tot}Soil_{Comb} PCL of 500 mg/kg for combined exposure pathways (i.e., inhalation, incidental ingestion, dermal contact, and vegetable consumption).

Terracon submitted the soil samples collected from 1 to 2 feet bgs in the three soil borings with the highest detected lead concentrations from 0 to 1 foot bgs (SB-5, SB-9, and SGP-2) for lead analysis. The soil samples collected from 1 to 2 feet bgs exhibited lead concentrations of 19.4 mg/kg (SB-5), 20.3 mg/kg (SB-9), and 102 mg/kg (SGP-2).

In accordance with the Texas Commission on Environmental Quality (TCEQ) Guidance *Determining Which Releases are Subject to TRRP*, revised November 19, 2010, synthetic precipitation leaching procedure (SPLP) analysis may be utilized to further evaluate the maximum detected concentration of lead in excess of the TRRP Action Level from each source area in order to evaluate groundwater protectiveness. Per the TRRP guidance, representative groundwater sample collection is applied in conjunction with exercising the SPLP option; however, as of

October 7, 2022 (24 days after monitoring well installation), monitoring wells MW-1 and MW-2 did not yield groundwater. Based on this observation, the perched water unit at the site, if present seasonally, would likely qualify as a Class 3 groundwater or non-groundwater bearing unit under TRRP. Based on the site conditions and absence of a beneficial-use shallow groundwater-bearing unit, further evaluation of lead concentrations in relation to groundwater protectiveness via SPLP testing was not warranted.

Conclusions

Based on the absence of groundwater recharge in the monitoring wells over the course of 24 days, a beneficial-use shallow groundwater-bearing unit does not appear to be present at the site.

Lead was detected at variable and sometimes moderately elevated concentrations in shallow soils at the site, presumably related to the past residential uses of the site and presence of lead-based paints. The concentrations of lead in samples from 0 to 1 foot bgs did not exceed the TCEQ PCL of 500 mg/kg protective of combined exposures on residential properties.

VOCs in soil gas, when detected, were largely present at low concentrations well below their respective risk-based criteria with the exception of select petroleum hydrocarbon VOCs in soil gas probe SGP-4. Elevated concentrations of benzene and other hydrocarbon VOCs were present in SGP-4, with the detected benzene concentration being well above the risk-based criteria. Detections of hydrocarbon VOCs in SGP-3, located nearby to the east, were minimal; suggesting that the elevated concentrations in SGP-4 may be due to residual soil impacts proximate to the probe location.

Recommendations

Terracon recommends that the lead findings for shallow soil be evaluated with respect to the specific proposed uses of the site to evaluate whether additional assessment or remediation of lead in shallow soil is warranted. The objectives and risk tolerances of stakeholders should be considered, in addition to the approaches applied on the closed VCP parcels adjoining the site.

If regulatory closure is desired in relation to the lead findings, Terracon recommends enrolling the site parcels in the TCEQ VCP for general consistency with the approach applied for the adjoining parcels.

Terracon recommends further soil gas assessment in the vicinity of SGP-4 to better understand the magnitude and extent of elevated VOCs in soil gas. Based on the results of supplemental assessment, a VOC vapor intrusion mitigation system (VIMS) may need to be incorporated into the proposed building located in the subject area. Alternatively, if the elevated concentrations are isolated, excavation of impacted soils may eliminate the need for a VIMS in the area.

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If soils located on the site are to be disturbed during future excavations or construction activities, proper procedures should be followed with respect to worker health and safety; and any affected soil encountered should be properly characterized, treated and/or disposed in accordance with applicable local, state, or federal regulations. Terracon recommends completion of a soil management plan (SMP) to aid the developer and/or contractors with appropriately managing soils during future construction. The lead concentrations detected in the shallow soils may not be protective of groundwater if relocated to properties with beneficial-use shallow groundwater; therefore, exports of shallow soil from the site during construction (if applicable) should be done in accordance with an SMP.

The investigation-derived waste (IDW) soils and equipment cleaning water are being characterized as non-hazardous waste and will be transported to the selected receiving facility for disposal in accordance with applicable local, state, and federal regulations.

If regulatory closure of the site is pursued, Terracon recommends the monitoring wells installed during this investigation remain in place until the desired regulatory closure objective is completed for the site.

1.0 SITE DESCRIPTION

| | |
|-------------------------|---|
| Site Name | EvRo Community Improvement Area |
| Site Address | Evans and Rosedale, Fort Worth, Tarrant County, Texas |
| Site Description | The site is improved with an approximate 10,000-SF library building with associated concrete-paved parking lots and drives, an approximate 1,380-SF vacant building, and an approximate 7,460-SF vacant building. |

A Topographic Map showing the site location is included as Exhibit 1, and a Site Diagram is included as Exhibit 2 (Appendix A).

2.0 SCOPE OF SERVICES

Terracon's Limited Site Investigation (LSI) was undertaken in response to the results of our Phase I Environmental Site Assessment (ESA) report dated May 13, 2022 (Terracon Project No. 94207647, Task 3A15), which identified the following recognized environmental conditions (RECs):

- The absence of on-site soil and/or groundwater data for VOCs associated with the historical on-site dry cleaners formerly located at 1005, 1009, and 1013 Evans Avenue.
- The potential for lead impacted soils to be present at 924, 1005, 1009, and 1013 Evans Avenue, 722 East Rosedale, and 810 Missouri Avenue (Historically 1001 Missouri Avenue) based on the apparent absence of lead sampling in the shallow soils and absence of VCP closures.

The objective of the LSI was to evaluate the presence of chemicals of concern associated with the RECs identified by the Phase I ESA. The scope of services was not intended to identify every chemical possibly associated with the site. Similarly, the proposed scope was not intended to determine the extent or magnitude of any existing release.

2.1 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, express or implied, regarding the findings, conclusions, or recommendations. Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These LSI services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal and were not intended to be in strict conformance with ASTM E1903-19.

2.2 Additional Scope Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this LSI. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations, or exploratory services. The data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

2.3 Reliance

This report has been prepared for the City of Fort Worth, Texas. Terracon acknowledges that the report may be provided to other parties, including other governmental entities having jurisdiction over the site and that those entities are subject to laws requiring the production of those documents as public records. This shall not change the fact that neither Terracon nor the City of Fort Worth, Texas is granting a right of legal reliance or creating a legal duty of care to any other party without the express written authorization of the City of Fort Worth, Texas and Terracon.

3.0 FIELD INVESTIGATION

3.1 Safety and Subsurface Utilities

Terracon is committed to the safety of all its employees. As such, and in accordance with our Incident and Injury Free® safety goals, Terracon conducted the fieldwork under a site-specific health and safety plan. The plan identified site-specific job hazards and proper pre-task planning procedures. Work was performed using U.S. EPA Level D work attire consisting of hard hats, high-visibility attire, safety glasses, protective gloves, and protective boots. Terracon contacted Texas 811 and requested location and markings for subsurface utilities that the service was responsible for before commencing intrusive activities at the site. In addition, Terracon subcontracted Tri-Star Pipe Inspection to locate private on-site utilities within the work area.

3.2 Sampling and Analytical Program Summary

A total of 11 soil borings (SB-1 through SB-11), two monitoring wells (MW-1 and MW-2), and six soil gas probes (SGP-1 through SGP-6) were advanced/installed at the site. The sample locations were selected to generally represent the areas with the highest potential for detecting chemicals

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of concern based on the locations of potential sources and the presumed groundwater flow direction based on topographic gradient. Refer to the attached Site Diagram (Exhibit 2, Appendix A) for a depiction of the sample locations and pertinent site features. The sampling and analytical program is outlined below.

| Area of Concern (AOC) | Sample Type | Designation | Media | Sample Total Per Analyses^{1,2} (EPA Method) |
|--|-----------------------|--|--------------|--|
| Potential On-Site Lead-Based Paint from Historical On-Site Structures | Surface | SB-1 through SB-11, SGP-1 and SGP-2, MW-1 and MW-2 | Soil | Total Lead (6020B) - 18 |
| | Groundwater | MW-1 and MW-2 | Aqueous | As of October 7, 2022 (24 days since installation), monitoring wells MW-1 and MW-2 did not yield groundwater; therefore, groundwater samples were not collected. |
| Historical On-Site Dry Cleaners | Surface or Subsurface | MW-1 and MW-2 | Soil | VOCs (8260D) - 2 TPH (TCEQ 1005) - 2 |
| | Groundwater | | Aqueous | As of October 7, 2022 (24 days since installation), monitoring wells MW-1 and MW-2 did not yield groundwater; therefore, groundwater samples were not collected. |
| | Soil Gas | SGP-1 and SGP-2 | Soil Gas | Select VOCs (TO-15) - 2 |
| Historical On-Site Dry Cleaners, Fueling Stations and Auto Repair Facilities | Surface | SGP-5 and SGP-6 | Soil | VOCs (8260D) - 2 TPH (TCEQ 1005) - 2 |
| | Soil Gas | SGP-3 through SGP-6 | Soil Gas | Select VOCs (TO-15) - 4 |

EPA = Environmental Protection Agency; SW-846 analytical methods

RCRA = Resource Conservation and Recovery Act

TPH = total petroleum hydrocarbons

VOCs = volatile organic compounds

3.3 Field Procedures

Boring/Well Advancement and Field Screening

Drilling services were performed by a State of Texas licensed driller using a direct-push technology (DPT) track-mounted drilling rig and a truck-mounted drilling rig utilizing hollow stem augers (HSAs). Oversight of the drilling activities was conducted by a Terracon field professional. Soil samples were collected using 4-foot direct-push sampling tubes lined with dedicated PVC liners. Drilling equipment was cleaned using a high-pressure washer prior to beginning the project and before beginning each soil boring. Non-dedicated sampling equipment was cleaned using an Alconox® wash and potable water rinse prior to the beginning of the project and before collecting each soil sample.

Soil samples were collected continuously and observed to document soil lithology, color, moisture content and sensory evidence of impairment. The soil samples were field-screened at 2-foot intervals using a photoionization detector (PID – Ion Science PhoCheck® Tiger) to indicate the presence of VOCs. Terracon calibrated the PID in accordance with the manufacturer's recommendations before the field activities. The boring logs in Appendix C include the lithology and field screening results for each soil boring.

Monitoring Well Construction and Development

The monitoring wells were constructed using the following methodology.

- Installation of 20 feet of 2-inch diameter, 0.010-inch machine-slotted PVC well screen with a threaded bottom cap
- Installation of 5 feet of 2-inch diameter, threaded, PVC riser pipe to the near surface
- Addition of a pre-sieved 20/40-grade annular silica sand pack from the bottom of the boring to approximately 2 feet above the top of the well screen
- Addition of hydrated bentonite seal from above the sand pack filter zone to the near surface
- Installation of an 8-inch-diameter, monitoring well manhole cover inset in a flush-mount, concrete well pad

The monitoring well construction details are presented on the soil boring logs in Appendix C.

Soil Gas Probe Construction

The soil gas probes were advanced to 5 feet bgs. Soil gas sampling implants, consisting of a screened stainless-steel sampling tip and Teflon®-lined tubing were placed in each borehole, with the sampling tips located at approximately 4 feet bgs. The boreholes were then backfilled with approximately 2 feet of 20/40 silica sand followed by approximately 6 inches of dry bentonite chips. The remainder of the borehole was filled with concrete grout to the surface. Semi-permanent completions were installed at the surface.

Soil and Groundwater Sample Collection

Terracon's soil sampling program involved assigning one to two soil samples from each soil boring/monitoring well for laboratory analysis. The soil sample collected from the interval exhibiting the highest PID reading and/or highest likelihood of a release based on the field professional's judgment in each soil boring was selected for laboratory analysis. This sampling rationale was applied for soils in the unsaturated or vadose zone. Additional soil samples were collected from each soil boring from for possible vertical delineation purposes. These additional soil samples were submitted to the laboratory and placed on hold for possible analysis if deemed warranted based on the initial analytical results. The soil samples for TPH and VOCs were collected using EPA 5035 field methods. Soil sample intervals for each boring are presented on the soil boring logs included in Appendix C.

Based on the approved scope of work, Terracon made multiple attempts to collect groundwater samples from monitoring wells MW-1 and MW-2. As of October 7, 2022 (24 days after monitoring well installation), monitoring wells MW-1 and MW-2 did not yield groundwater; therefore, groundwater was unable to be evaluated as a part of this investigation.

In addition, per the approved Site-Specific Sampling and Analysis Plan (SSAP), field blanks, equipment blanks, and replicate soil and groundwater samples were prepared/collected and analyzed for select analyses for quality control (QC) purposes.

The samples were collected and placed in laboratory-prepared glassware containing the appropriate preservative, labeled, and placed on ice in sample coolers. The sample coolers were secured with a custody seal and shipped to the selected analytical laboratory. The sample coolers and completed chain-of-custody forms were relinquished to DHL Analytical Laboratories in Round Rock, Texas for analysis on normal turnaround.

Soil Gas Sample Collection

A period of 48 hours was allowed for sample probe equilibration prior to sampling the soil gas probes using laboratory-supplied 1-liter Summa canisters that were pretested and batch-certified as free of chemicals of concern (COC) by the analytical laboratory. The canisters were connected

to the sampling probes using dedicated Teflon®-lined sample tubing and were equipped with laboratory-supplied flow regulators allowing for sample collection at a low-flow rate (i.e., <200 ml/min).

Prior to sample collection, the sampling trains were tested for leaks using vacuum shut-in methods. Additionally, the soil gas sampling probes and sampling trains were tested for leaks using a shroud filled with helium tracer gas. Approximately three 500-ml volumes were purged from each soil gas sampling probe through the sample train tubing prior to sample collection. These volumes were tested for the presence of helium with a field Helium meter (MGD-2002®) to confirm the tightness of the sample train and probes. The results of the vacuum shut-in and helium shroud leak tests did not indicate the presence of leaks.

In addition, one field/materials blank sample was collected by drawing ambient air at the site through a dedicated sampling train constructed of materials from the same stock.

Upon completion of sample collection, the Summa canisters were closed, secured, and appropriately labeled with pertinent sample information. Canister pressures were recorded upon initiation of sample collection, after sample collection, and after receipt at the laboratory. The sample containers were transported under chain-of-custody to Pace Laboratories in Mount Juliet, Tennessee for analysis on normal turnaround.

3.4 Boring Abandonment and Investigation-Derived Waste (IDW)

At the completion of field activities, Terracon abandoned soil borings SB-1 through SB-11 in accordance with state regulations and guidelines. The borings were completed to near surface grade with bentonite pellets, and then hydrated.

Soil cuttings, groundwater and equipment cleaning water generated during the field activities were placed in 55-gallon steel drums, which were closed and appropriately labeled with project-specific information and initial accumulation date. A total of four 55-gallon drums containing soil cuttings and one 55-gallon drum containing equipment cleaning water were generated during these field services and were left on the site for subsequent characterization and disposal.

4.0 FIELD INVESTIGATION RESULTS

4.1 Geology/Hydrogeology

The boring logs in Appendix C detail the observed soil stratigraphy. In general, Terracon encountered clay from beneath the grass surfaces to approximately 16 to 19 feet below grade surface (bgs) in the deeper soil borings/monitoring wells. Gray shale bedrock was encountered from approximately 16 to 19 feet bgs until termination of the deeper soil borings/monitoring wells at depths of approximately 25 feet bgs.

4.2 Field Screening

The field screening results are summarized on the boring logs in Appendix C.

PID readings were not detected above the instrument baseline associated with background site conditions in the soil samples collected from the assessment locations, with the exception of SGP-3 and SGP-4, which exhibited PID readings of 20.6 parts per million (ppm) and 62.4 ppm.

5.0 ANALYTICAL RESULTS

The laboratory analytical reports and chain-of-custody records are attached in Appendix D. The following sections describe the results of the testing. Chemical of concern (COC) concentrations were compared to applicable Texas Commission on Environmental Quality (TCEQ) Action Levels based on the nature and source of the release and the corresponding regulatory program.

COCs subject to the Petroleum Storage Tank (PST) program (30 TAC §334) were compared to PST Action Levels per TCEQ Regulatory Guidance RG-411, *Investigating and Reporting Releases from Petroleum Storage Tanks*, dated August 12, 2012. There are not published PST Action Levels for TPH. Under the PST program, TPH data are used to screen for PAHs.

COCs subject to the Texas Risk Reduction Program (TRRP – 30 TAC §350) were compared to TRRP Action Levels as defined in the TCEQ guidance *Determining Which Releases are Subject to TRRP*, revised November 19, 2010. Per the guidance, TRRP Action Levels are defined as the lowest applicable Residential Tier 1 Protective Concentration Levels (PCLs) assuming a 0.5-acre source area and Class 1 groundwater.

TRRP Screening Levels for TPH are the Residential Tier 1 PCLs identified in TCEQ Regulatory Guidance RG-366/TRRP-27, *Development of Human Health PCLs for Total Petroleum Hydrocarbon Mixtures*, dated January 2010. These TPH Screening Levels for soil are 65 milligrams per kilogram (mg/kg) for the C₆-C₁₂ carbon range, 200 mg/kg for the C₁₂-C₂₈ carbon range, and 200 mg/kg for the C₂₈-C₃₅ carbon range. The TPH Screening Level for groundwater is 0.98 milligrams per Liter (mg/L) for all three carbon ranges.

The detected total lead concentrations in soils were also compared to the TRRP Texas-Specific Background Concentration (TSBC). In cases where the TSBC is greater than the lowest Residential Tier 1 PCL, the TRRP Action Level is the TSBC.

The TCEQ has not established soil gas PCLs, but has published Risk Based Exposure Limits (RBELs) for air inhalation at the point of exposure. The TCEQ has not published formal guidance

or regulations specific to the vapor intrusion pathway; however, the air-inhalation RBELs represent current TRRP inhalation values protective of human health. Therefore, soil gas VOC concentrations were compared to Soil Gas Target Concentrations calculated using TRRP Residential and Commercial/Industrial RBELs and the current EPA generic attenuation factor of 0.03 for soil gas to indoor air. The soil gas concentrations were also compared to EPA Vapor Intrusion Screening Levels (VISLs) calculated using the EPA's online calculator.

Constituent concentrations qualified with J-flag (J) indicate the constituent was detected at a concentration above the laboratory sample detection limit (SDL), but below the laboratory method quantitation limit (MQL). Constituent concentrations qualified with a J-flag are considered estimated values.

Methylene chloride is considered a common analytical laboratory contaminant. Thus, the concentrations of this chemical detected in the samples may be attributable to or biased by laboratory interference.

5.1 Soil Sample Results

The soil analytical data and corresponding Action Levels are summarized in Table 1 (Appendix B).

Total Petroleum Hydrocarbons (TPH)

TPH concentrations were not detected above laboratory SDLs in the soil samples collected from MW-1, MW-2, SGP-5, and SGP-6.

Volatile Organic Compounds (VOCs)

VOC concentrations were not detected above laboratory SDLs in the soil samples collected from MW-1, MW-2, SGP-5, and SGP-6, with the exception of methylene chloride and J-flagged (estimated) toluene concentrations in select samples. The detected concentrations of methylene chloride and toluene were below their applicable Action Levels.

Total Lead

Lead concentrations were detected above the TRRP Action Level and TSBC of 15 mg/kg in soil samples collected at the site, with the exception of lead concentrations detected in samples from borings SB-3, SB-4, and SB-7. Detected lead concentrations that exceeded the Action Level of 15 mg/kg ranged from 18.1 mg/kg (SB-8 at 0 to 1 foot bgs) to 440 mg/kg (SB-5 at 0 to 1 foot bgs). The maximum lead concentration of 440 mg/kg detected in boring SB-5 was below the TRRP Residential Tier 1 ^{Tot}Soil_{Comb} PCL of 500 mg/kg for combined exposure pathways (i.e., inhalation, incidental ingestion, dermal contact, and vegetable consumption).

Terracon submitted the soil samples collected from 1 to 2 feet bgs in the three soil borings with the highest detected lead concentrations at 0 to 1 foot bgs (SB-5, SB-9, and SGP-2) for lead analysis. The soil samples collected from 1 to 2 feet bgs in these borings exhibited lead concentration of 19.4 mg/kg, 20.3 mg/kg, and 102 mg/kg, respectively.

In accordance with the Texas Commission on Environmental Quality (TCEQ) Guidance *Determining Which Releases are Subject to TRRP*, revised November 19, 2010, synthetic precipitation leaching procedure (SPLP) analysis may be utilized to further evaluate the maximum detected concentration of lead in excess of the TRRP Action Level from each source area in order to evaluate groundwater protectiveness. Per the TRRP guidance, representative groundwater sample collection is applied in conjunction with exercising the SPLP option; however, as of October 7, 2022 (24 days after monitoring well installation), monitoring wells MW-1 and MW-2 did not yield groundwater. Based on this observation, the perched water unit at the site, if present seasonally, would likely qualify as a Class 3 groundwater or non-groundwater bearing unit under TRRP. Based on the site conditions and absence of a beneficial-use shallow groundwater-bearing unit, further evaluation of lead concentrations in relation to groundwater protectiveness via SPLP testing was not warranted.

5.2 Groundwater Sample Results

Terracon made multiple attempts to collect groundwater samples from monitoring wells MW-1 and MW-2. As of October 7, 2022 (24 days after monitoring well installation), the monitoring wells did not yield groundwater; therefore, groundwater was unable to be evaluated as a part of this investigation. Terracon submitted additional soil samples from monitoring wells MW-1 and MW-2, which were collected from just above the gray limestone bedrock interval to evaluate the potential for impacts. This interval was considered the most likely to represent a perched water zone, if seasonally present.

5.3 Soil Gas Sample Results

The soil gas analytical data and corresponding Target Concentrations are summarized in Table 2 (Appendix B).

The dry cleaning solvent tetrachloroethene (PCE) was detected at concentrations above the laboratory detection limit in the soil gas samples collected from SGP-1, SGP-2, SGP-3, SGP-5, and SGP-6; however, select daughter products (i.e., trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride) were not detected. The detected PCE concentrations ranging from 1.59 B mg/kg to 4.88 B mg/kg were well below the calculated Target Concentration of 2,100 µg/m³ and EPA VISL of 1,390 µg/m³. Furthermore, the detected concentrations were qualified with a B-flag, indicating that PCE was also detected in the

laboratory method blank. Terracon requested an explanation from Pace Analytical National (Pace), and on September 30, 2022, the laboratory provided the following response:

"The Method blank detection is directly related to canisters that analyzed in the previous batch. Detection in the method blank is less than 1/2RL – which meets quality objectives – however, while the detections in client samples were above RL, they are still within 10x background and therefore were qualified appropriately with the B qualifier. Client can assume that detection in the method blank impacted the sample result at a similar concentration as seen in the MB."

Based on the explanation from the laboratory, the detected concentrations of PCE in the soil gas samples collected from the site appear to be a result of laboratory interference.

Benzene, toluene, ethylbenzene, and xylenes (BTEX) constituents and other petroleum hydrocarbon VOCs were detected at concentrations above laboratory detection limits in the soil gas samples collected from SGP-1 through SGP-6. The detected concentrations did not exceed their respective Target Concentrations, with the exception of the detected benzene concentration in SGP-4. The detected benzene concentration of 53,000 µg/m³ in SGP-4 was above the EPA VSL of 120 µg/m³ and the calculated TRRP-RBEL-based Target Concentration of 370 µg/m³.

5.4 QA/QC Analysis

Terracon collected field replicate soil samples from monitoring well MW-1 for analysis of VOCs and TPH, and soil borings SB-2 and SGP-1 for analysis of total lead. Based on the laboratory analytical results, the replicate and original soil sample collected from monitoring well MW-1 did not indicate the presence of TPH or VOCs above laboratory SDLs.

One trip blank, as sealed and provided by DHL Analytical, was submitted with each cooler of soil samples. The trip blanks submitted with soil samples on September 12, 2022 did not exhibit concentrations of VOCs above laboratory SDLs.

One equipment cleaning blank and field blank were collected during field activities. The blanks submitted with soil samples on September 12, 2022 did not exhibit concentrations of VOCs or TPH above laboratory SDLs.

Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on the soil sample collected from soil boring MW-1 (VOCs and TPH). Review of the Laboratory Review Checklist (LRC) indicated that the MS/MSD recoveries and RPDs were inside the control limits with the exception of the following:

- Exception Report R7-03 – For Volatiles analysis performed on 9/22/22 (batch 107106) the matrix spike and matrix spike duplicate recoveries were out of control limits for twenty compounds. This was due to matrix interference. These are

flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these compounds. No further corrective actions were taken.

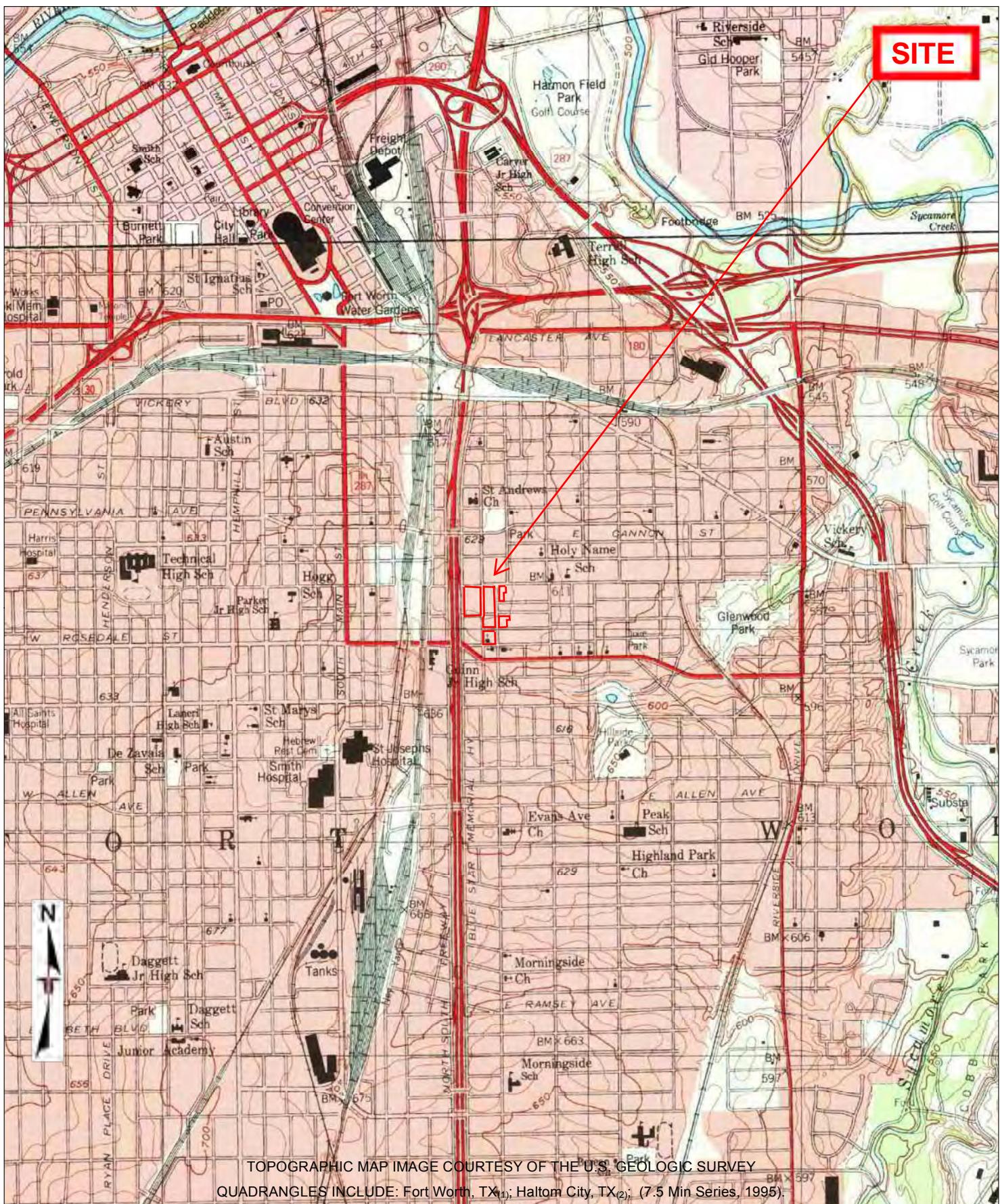
- Exception Report R7-03 – For Metals analysis performed on 9/29/22 (batch 107168) the matrix spike and matrix spike duplicate recoveries were above control limits for Lead. These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for this analyte. No further corrective actions were taken.
- Exception Report R7-04 – For Volatiles analysis performed on 9/14/22 (batch 107035) the matrix spike duplicate recovery was slightly below control limits for five compounds. In addition, the matrix spike and matrix spike duplicate (batch 107035) had the RPD slightly above control limits for Naphthalene. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these compounds. No further corrective actions were taken.

Terracon reviewed the QC data outlined in the above exception reports. Based on the nature and magnitude of the exceptions, and comparison of the exceptions to the reported COC concentrations in critical samples and corresponding Action Levels, it was concluded that the data met quality objectives for the purposes of this assessment.

APPENDIX A – EXHIBITS

Exhibit 1 – Topographic Map

Exhibit 2 – Site Diagram



| | |
|------------------|--------------|
| Project Manager: | Project No: |
| KCL | 95207647 3.6 |
| Drawn By: | Scale: |
| EDR | 1" = 500' |
| Checked By: | File Name: |
| KCL | 22030300962 |
| Approved By: | Date: |
| SMK | 2022-03-07 |

Terracon

2501 E Loop 820 N
Ft. Worth, Texas 76118

TOPOGRAPHIC MAP (1995)

EvRo Community Improvement Area -
Evans and Rosedale
Fort Worth, Tarrant County, Texas

SITE

1



| | |
|---------------|-----|
| Project Mngr: | KCL |
| Drawn By: | CDD |
| Checked By: | KCL |
| Approved By: | SMK |

Terracon
Consulting Engineers and Scientists
(Registration No. F-3272)
2501 EAST LOOP 820 N. FORT WORTH, TX 76118
PH. (817) 268-8600 FAX. (817) 268-8602

THIS DRAWING SHOULD
NOT BE USED SEPARATELY
FROM ORIGINAL REPORT.

SOURCE: GOOGLE EARTH, 2022; IMAGERY DATE: 8/5/2021

EXHIBIT
2

APPENDIX B – TABLES

Table 1 – Soil Analytical Summary

Table 2 – Soil Gas Analytical Summary

Table 1
Soil Analytical Summary
Evans and Rosedale
Fort Worth, Texas
Project No. 95207647 Task 3.6

| Parameter | Method | TRRP ^{Tot} Soil _{Comb} ¹ PCL (mg/kg) | TRRP Action Level ² (mg/kg) | Sample Identifier | | | | | | | | | | | | | | |
|---|-----------|--|---|-------------------|------|--------|-------------------|------------|------------------|--------|-------------|-------------|-------------|-------------|-------------|------------|-------------|--|
| | | | | MW-1 | | | DUP-MW-1 | | MW-2 | | | SB-1 | SB-2 | DUP-SB-2 | SB-3 | SB-4 | | |
| | | | | 0-1' | 5-7' | 17-19' | 5-7' | 0-1' | 5-7' | 15-16' | 0-1' | 0-1' | 0-1' | 0-1' | 0-1' | 1-2' | | |
| 9/12/2022 9/12/2022 9/12/2022 9/12/2022 9/12/2022 9/12/2022 9/12/2022 9/12/2022 9/12/2022 9/12/2022 9/12/2022 9/12/2022 9/12/2022 9/12/2022 9/12/2022 9/12/2022 | | | | | | | | | | | | | | | | | | |
| RCRA metals (mg/kg) | | | | | | | | | | | | | | | | | | |
| Lead | EPA 6020 | 500 | 15 | 74.4 | --- | --- | --- | 296 | --- | --- | 44.3 | 46.2 | 27.0 | 13.8 | 13.6 | 440 | 19.4 | |
| Total Petroleum Hydrocarbons (TPH) (mg/kg) | | | | | | | | | | | | | | | | | | |
| C6-C12 | TX 1005 | 1,600 | 65 | --- | <SDL | <SDL | <SDL | --- | <SDL | <SDL | --- | --- | --- | --- | --- | --- | | |
| >C12-C28 | TX 1005 | 2,300 | 200 | --- | <SDL | <SDL | <SDL | --- | <SDL | <SDL | --- | --- | --- | --- | --- | --- | | |
| >C28-C35 | TX 1005 | 2,300 | 200 | --- | <SDL | <SDL | <SDL | --- | <SDL | <SDL | --- | --- | --- | --- | --- | --- | | |
| C6-C35 | TX 1005 | N/A | N/A | --- | <SDL | <SDL | <SDL | --- | <SDL | <SDL | --- | --- | --- | --- | --- | --- | | |
| Volatile Organic Compounds (VOCs) (mg/kg) | | | | | | | | | | | | | | | | | | |
| Toluene | EPA 8260B | 5,900 | 8.2 | --- | <SDL | <SDL | 0.000952 J | --- | 0.00112 J | <SDL | --- | --- | --- | --- | --- | --- | | |
| Methylene Chloride | EPA 8260B | 1,600 | 0.013 | --- | <SDL | <SDL | 0.00587 | --- | 0.00699 | <SDL | --- | --- | --- | --- | --- | --- | | |

Notes

1. Texas Risk Reduction Program (TRRP) Residential Tier 1 Total-Soil-Combined (^{Tot}Soil_{Comb}) Protective Concentration Level (PCL) for combined exposure pathways (i.e., inhalation, incidental ingestion, dermal contact, and vegetable consumption)

2. Texas Risk Reduction Program (TRRP) Action Levels as defined in the TCEQ guidance *Determining Which Releases are Subject to TRRP*, revised November 19, 2010

Only constituents detected above the laboratory sample detection limit (SDL) are reported for VOCs, unless otherwise noted

<SDL = Constituent not detected above the laboratory SDL

J = Estimated value, constituent detected above laboratory SDL but below the method quantitation limit (MQL)

N/A = Not applicable

--- = Not analyzed

Bold denotes concentrations above laboratory SDLs

Bold and blue shaded denotes concentrations exceeding TRRP Action Levels; no concentrations exceeded TRRP ^{Tot}Soil_{Comb} PCL

Table 1
Soil Analytical Summary
Evans and Rosedale
Fort Worth, Texas
Project No. 95207647 Task 3.6

| Parameter | Method | TRRP ^{Tot} Soil _{Comb} ¹ PCL (mg/kg) | TRRP Action Level ² (mg/kg) | Sample Identifier | | | | | | | | | | | |
|---|-----------|--|---|-------------------|-------------|-------------|------------|-------------|-------------|-------------|------------|-------------|------------|------------------|----------------|
| | | | | SB-6 | SB-7 | SB-8 | SB-9 | SB-10 | SB-11 | SGP-1 | DUP-SGP-1 | SGP-2 | SGP-5 | SGP-6 | |
| | | | | 0'-1' | 0'-1' | 0'-1' | 0'-1' | 1-2' | 0'-1' | 0'-1' | 0'-1' | 0'-1' | 1-2' | 3-5' | 1-3' |
| <i>RCRA metals (mg/kg)</i> | | | | | | | | | | | | | | | |
| Lead | EPA 6020 | 500 | 15 | 290 | 6.94 | 18.1 | 414 | 20.3 | 41.8 | 97.9 | 207 | 67.8 | 369 | 102 | --- |
| <i>Total Petroleum Hydrocarbons (TPH) (mg/kg)</i> | | | | | | | | | | | | | | | |
| C6-C12 | TX 1005 | 1,600 | 65 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | <SDL | <SDL |
| >C12-C28 | TX 1005 | 2,300 | 200 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | <SDL | <SDL |
| >C28-C35 | TX 1005 | 2,300 | 200 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | <SDL | <SDL |
| C6-C35 | TX 1005 | N/A | N/A | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | <SDL | <SDL |
| <i>Volatile Organic Compounds (VOCs) (mg/kg)</i> | | | | | | | | | | | | | | | |
| Toluene | EPA 8260B | 5,900 | 8.2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0.00188 J | <SDL |
| Methylene Chloride | EPA 8260B | 1,600 | 0.013 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0.00702 | 0.00765 |

Notes

1. Texas Risk Reduction Program (TRRP) Residential Tier 1 Total-Soil-Combined (^{Tot}Soil_{Comb}) Protective Concentration Level (PCL) for combined exposure pathways (i.e., inhalation, incidental ingestion, dermal contact, and vegetable consumption)

2. Texas Risk Reduction Program (TRRP) Action Levels as defined in the TCEQ guidance *Determining Which Releases are Subject to TRRP*, revised November 19, 2010

Only constituents detected above the laboratory sample detection limit (SDL) are reported for VOCs, unless otherwise noted

<SDL = Constituent not detected above the laboratory SDL

J = Estimated value, constituent detected above laboratory SDL but below the method quantitation limit (MQL)

N/A = Not applicable

--- = Not analyzed

Bold denotes concentrations above laboratory SDLs

Bold and blue shaded denotes concentrations exceeding TRRP Action Levels; no concentrations exceeded TRRP ^{Tot}Soil_{Comb}

PCL

TABLE 2
Soil Gas Analytical Summary
Evans and Rosedale
Fort Worth, Texas
Project No. 95207647 Task 3.6

| Parameter | TRRP Soil Gas Target Concentration (Residential) ¹ | EPA VISL (Residential) ² | SGP-1 | SGP-2 | SGP-3 | SGP-4 | SGP-5 | SGP-6 | FB-1 |
|---|---|-------------------------------------|-------------|-------------|-------------|----------------|--------------|-------------|-------------|
| | 9/21/22 | | 9/21/22 | 9/21/22 | 9/21/22 | 9/21/22 | 9/21/22 | 9/21/22 | 9/21/22 |
| Select Volatile Organic Compounds (VOCs) - EPA Method TO-15 (µg/m³) | | | | | | | | | |
| Benzene | 370 | 120 | 1.93 | 1.42 | 2.82 | 53000 | 1.98 | 2.07 | 1.61 |
| Toluene | 140000 | 174000 | 3.70 | < 1.88 | 3.84 | 2890 | 2.72 | 3.60 | 2.44 |
| Ethylbenzene | 67000 | 373 | 1.08 | < 0.867 | < 0.867 | < 86.7 | 1.16 | < 0.867 | < 0.867 |
| Xylene, m&p- | 21000 | 3470 | 3.75 | 2.41 | 3.04 | < 173 | 3.46 | 2.46 | < 1.73 |
| Xylene,o- | 21000 | 3470 | 1.57 | < 0.867 | 1.07 | < 86.7 | 1.47 | < 0.867 | < 0.867 |
| Tetrachloroethene | 2100 | 1390 | 4.03 | B | 1.59 | B | 3.72 | B | < 136 |
| Butanone, 2- (MEK) | 310000 | 174000 | 6.90 | < 3.69 | 4.13 | < 369 | 6.58 | < 3.69 | 3.77 |
| Ethyltoluene, 4- | 14000 | NC | < 0.982 | < 0.982 | < 0.982 | 2600 | < 0.982 | < 0.982 | < 0.982 |
| Isopropylbenzene | 14000 | 13900 | < 0.983 | < 0.983 | < 0.983 | 12700 | < 0.983 | < 0.983 | < 0.983 |
| Methylene Chloride | 29000 | 20900 | 1.23 | < 0.694 | 1.26 | 251 | 0.833 | < 0.694 | 1.53 |
| Trimethylpentane, 2,2,4- | NP | NP | 19.9 | 53.3 | 91.6 | 4380000 | 112 | 125 | 115 |
| Remaining Analyzed Analytes | N/A | N/A | < SDLs | < SDLs | < SDLs | < SDLs | < SDLs | < SDLs | < SDLs |

Notes

- Calculated using Texas Risk Reduction Program (TRRP) air-inhalation Risk Based Exposure Limits (RBELs) and EPA attenuation factor of 0.03.
- Calculated using USEPA online Vapor Intrusion Screening Level (VISL) Calculator for residential use, a cancer risk factor of 10E-05, a hazard quotient of 1.0, and an attenuation factor of 0.03.

B = The constituent was detected in the laboratory method blank

Bold denotes concentrations exceeding the laboratory **SDL**

NP = Not Published

YELLOW shaded concentrations exceed both the TRRP Soil Gas Target Concentration (Residential) and the EPA VISL (Residential)

APPENDIX C – SOIL BORING LOGS

WELL LOG NO. MW-1

Page 1 of 1

| | | | |
|--|------------------------|---|--|
| PROJECT: EVRO Community Improvement Area | | CLIENT: City of Fort Worth Fort Worth, Texas | |
| SITE: Evans and Rosedale Fort Worth, Texas | | | |
| GRAPHIC LOG | LOCATION See Exhibit 2 | INSTALLATION DETAILS | |
| | DEPTH | MATERIAL DESCRIPTION | DEPTH (ft) |
| | 8.0 | <u>SILTY CLAY (CL-ML)</u> , brown, grass surface, moist -with calcareous nodules from 6-7' | Well Completion: Concrete Bentonite -20/40 Sand |
| | 12.0 | <u>CLAY WITH SILT (CH)</u> , brown, moist | 0.01" Slotted Pipe |
| | 19.0 | <u>CLAY (CH)</u> , brown, moist <i>19.0 Direct Push Technology (DPT) refusal at 19'. switched to solid flight augers (SFA).</i> | 15 |
| | 25.0 | <u>SHALE</u> , gray <i>Boring Terminated at 25 Feet</i> | 20 25 |
| The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown. | |  <p>The seal is circular with a star in the center. The text "STATE OF TEXAS" is at the top, "SCOTT M. HOLODZIEJ" is in the middle, and "SOIL SCIENCE LIC. #10536" is at the bottom. A signature "Scott M. Holodziej" is written across the bottom of the seal, with the date "10/12/22" written next to it.</p> | |
| Advancement Method: DPT/SFA | | Notes: <i>This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing.</i> | |
| Abandonment Method: | | | |
| WATER LEVEL OBSERVATIONS <i>No seepage encountered during drilling Dry at completion</i> | | Well Started: 09-12-2022 Drill Rig: Geoprobe Project No.: 95207647 3.6 | Well Completed: 09-12-2022 Driller: Sunbelt Exhibit: C-1 |

WELL LOG NO. MW-2

Page 1 of 1

| PROJECT: EVRO Community Improvement Area | | CLIENT: City of Fort Worth Fort Worth, Texas | | |
|--|------------------------|--|---------------------|--|
| SITE: Evans and Rosedale Fort Worth, Texas | | | | |
| GRAPHIC LOG | LOCATION See Exhibit 2 | INSTALLATION DETAILS | | DEPTH (ft) |
| | | Well Completion: | | |
| | DEPTH | MATERIAL DESCRIPTION | | WATER LEVEL OBSERVATIONS |
| | 3.0 | CLAY (CH) , brown, grass surface, moist -asphalt and glass at 1' | -Concrete | SAMPLE TYPE |
| | 4.0 | LIMESTONE , tan, dry | -Bentonite | OVA/PID (ppm) |
| | 4.0 | CLAY (CH) , light brown, dry | -20/40 Sand | SAMPLE INTERVAL |
| | 16.0 | <i>Direct Push Technology (DPT) refusal at 16', switched to solid flight augers (SFA).</i> | -0.01" Slotted Pipe | SAMPLE TIME |
| | 16.0 | SHALE , gray | | |
| | 25.0 | Boring Terminated at 25 Feet | | |
|  <p>The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.</p> <p>10/18/2022</p> | | | | |
| Advancement Method: DPT/SFA | | | | Notes: This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing. |
| Abandonment Method: | | | | |
| WATER LEVEL OBSERVATIONS | | Terracon | | Well Started: 09-12-2022 |
| No seepage encountered during drilling | | 8901 John W Carpenter Fwy Ste 100 Dallas, TX | | Well Completed: 09-13-2022 |
| Dry at completion | | | | Drill Rig: Geoprobe |
| | | | | Driller: Sunbell |
| | | | | Project No.: 95207647 3.6 |
| | | | | Exhibit: C-2 |

BORING LOG NO. SB-1

Page 1 of 1

PROJECT: EVRO Community Improvement Area

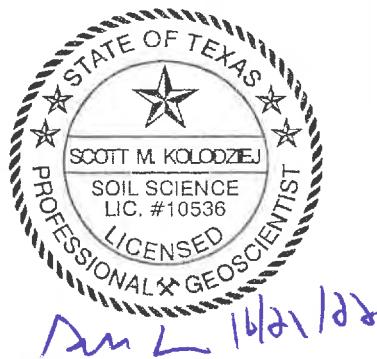
**CLIENT: City of Fort Worth
Fort Worth, Texas**

**SITE: Evans and Rosedale
Fort Worth, Texas**

| GRAPHIC LOG | LOCATION | | DEPTH (ft) | MATERIAL DESCRIPTION | DEPTH (ft) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | OVA/PID (ppm) | SAMPLE INTERVAL | SAMPLE TIME |
|-------------|----------|---|------------|----------------------|------------|--------------------------|-------------------------------------|---------------|-----------------|-------------|
| | DEPTH | MATERIAL DESCRIPTION | | | | | | | | |
| | | SILTY CLAY (CL-ML), brown, grass surface, moist | | | | | <input checked="" type="checkbox"/> | <1 | 0-1' | 1130 |
| | 4.0 | | | | | | <input checked="" type="checkbox"/> | <1 | 1-2' | 1130 |
| | | | | | | | <input checked="" type="checkbox"/> | <1 | 2-3' | 1130 |
| | | | | | | | <input checked="" type="checkbox"/> | <1 | | |

Boring Terminated at 4 Feet

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 95207647 TASK 3.6.GPJ TERRACON DATA TEMPLATE.GDT 10/10/22



The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
DPT

Notes:

This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing.

Abandonment Method:
Boring backfilled with bentonite chips upon completion.

WATER LEVEL OBSERVATIONS

No seepage encountered during drilling
Dry at completion

Terracon
8901 John W Carpenter Fwy Ste 100
Dallas, TX

Boring Started: 09-12-2022

Boring Completed: 09-12-2022

Drill Rig: Geoprobe

Driller: Sunbelt

Project No.: 95207647 3.6

Exhibit: C-111

BORING LOG NO. SB-2

Page 1 of 1

PROJECT: EVRO Community Improvement Area

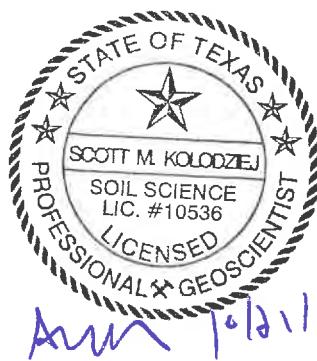
**CLIENT: City of Fort Worth
Fort Worth, Texas**

**SITE: Evans and Rosedale
Fort Worth, Texas**

| GRAPHIC LOG | LOCATION See Exhibit 2 | | DEPTH (ft) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | SAMPLE INTERVAL | SAMPLE TIME |
|-------------|------------------------|---|------------|--------------------------|-------------|-----------------|-------------|
| | DEPTH | MATERIAL DESCRIPTION | | | | | |
| | | SILTY CLAY (CL-ML), brown, grass surface, moist | | | <1 | 0-1' | 1111 |
| | 4.0 | | | | <1 | 1-2' | 1111 |
| | | | | | <1 | 2-3' | 1111 |
| | | | | | <1 | | |

Boring Terminated at 4 Feet

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 95207647 TASK 3.6.GPJ TERRACON _DATATEMPLATE.GDT 10/10/22



AMM 10/12/22

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
DPT

Notes:

This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing.

Abandonment Method:
Boring backfilled with bentonite chips upon completion.

WATER LEVEL OBSERVATIONS

No seepage encountered during drilling
Dry at completion

Terracon
8901 John W Carpenter Fwy Ste 100
Dallas, TX

Boring Started: 09-12-2022

Boring Completed: 09-12-2022

Drill Rig: Geoprobe

Driller: Sunbelt

Project No.: 95207647 3.6

Exhibit: C-112

BORING LOG NO. SB-3

Page 1 of 1

PROJECT: EVRO Community Improvement Area

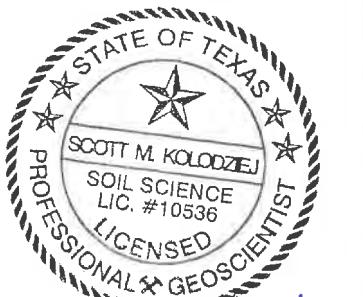
**CLIENT: City of Fort Worth
Fort Worth, Texas**

**SITE: Evans and Rosedale
Fort Worth, Texas**

| GRAPHIC LOG | LOCATION See Exhibit 2 | | DEPTH (ft) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | OVA/PID (ppm) | SAMPLE INTERVAL | SAMPLE TIME |
|-------------|------------------------|--|------------|--------------------------|-------------|---------------|-----------------|-------------|
| | DEPTH | MATERIAL DESCRIPTION | | | | | | |
| | 3.5 | SILTY CLAY (CL-ML), dark brown, grass surface, moist | | | | <1 | 0-1' | 1056 |
| | 4.0 | LIMESTONE, tan, dry | | | | <1 | 1-2' | 1056 |
| | | | | | | <1 | 2-3' | 1056 |
| | | | | | | <1 | | |

Boring Terminated at 4 Feet

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 95207647 TASK 3.6.GPJ TERRACON DATAFILE GDT 10/10/22



Ann 10/12/22

The stratification lines represent the approximate transition between differing soil types and/or rock types;
in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
DPT

Notes:

This boring log is not valid if separated from the original report.
USCS designation is an approximation based on field observation
and is not based on laboratory testing.

Abandonment Method:
Boring backfilled with bentonite chips upon completion.

WATER LEVEL OBSERVATIONS

No seepage encountered during drilling
Dry at completion

Terracon
8901 John W Carpenter Fwy Ste 100
Dallas, TX

Boring Started: 09-12-2022

Boring Completed: 09-12-2022

Drill Rig: Geoprobe

Driller: Sunbelt

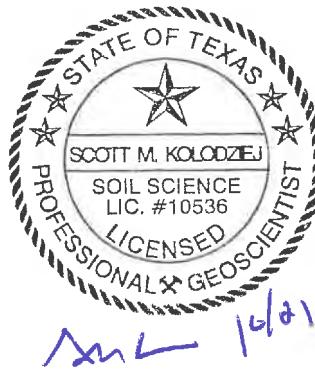
Project No.: 95207647 3.6

Exhibit: C-113

BORING LOG NO. SB-4

Page 1 of 1

| | | | |
|---|--|--|--|
| PROJECT: EVRO Community Improvement Area | | CLIENT: City of Fort Worth Fort Worth, Texas | |
| SITE: Evans and Rosedale Fort Worth, Texas | | | |
| GRAPHIC LOG | LOCATION See Exhibit 2 | DEPTH | MATERIAL DESCRIPTION |
| | | 4.0 | SILTY CLAY (CL-ML), brown, grass surface, moist |
| | <i>Boring Terminated at 4 Feet</i> | | |
| The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown. | | | |
| Advancement Method: DPT | | Notes: This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing. | |
| Abandonment Method: Boring backfilled with bentonite chips upon completion. | | | |
| WATER LEVEL OBSERVATIONS No seepage encountered during drilling Dry at completion |  8901 John W Carpenter Fwy Ste 100 Dallas, TX | Boring Started: 09-12-2022 Drill Rig: Geoprobe Project No.: 95207647 3.6 | Boring Completed: 09-12-2022 Driller: Sunbelt Exhibit: C-114 |



BORING LOG NO. SB-5

Page 1 of 1

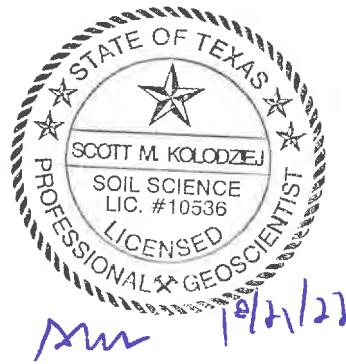
PROJECT: EVRO Community Improvement Area

**CLIENT: City of Fort Worth
Fort Worth, Texas**

**SITE: Evans and Rosedale
Fort Worth, Texas**

| GRAPHIC LOG | LOCATION See Exhibit 2 | | DEPTH (ft) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | SAMPLE INTERVAL | SAMPLE TIME |
|-------------|------------------------|--|------------|--------------------------|-------------|-----------------|-------------|
| | DEPTH | MATERIAL DESCRIPTION | | | | | |
| | 3.0 | SILTY CLAY (CL-ML), dark brown, grass surface, with gray laminant tile | | | X <1 | 0-1' | 0914 |
| | 4.0 | SILTY CLAY (CL-ML), brown, moist | | | X <1 | 1-2' | 0914 |
| | | | | | X <1 | 2-3' | 0914 |
| | | | | | X <1 | | |

Boring Terminated at 4 Feet



AMM 10/1/22

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 95207647 TASK 3.6 GPJ TERRACON DATATEMPLATE.GDT 10/10/22

Advancement Method:
DPT

Abandonment Method:
Boring backfilled with bentonite chips upon completion.

Notes:

This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing.

WATER LEVEL OBSERVATIONS

No seepage encountered during drilling
Dry at completion

Terracon
8901 John W Carpenter Fwy Ste 100
Dallas, TX

Boring Started: 09-12-2022

Boring Completed: 09-12-2022

Drill Rig: Geoprobe

Driller: Sunbelt

Project No.: 95207647 3.6

Exhibit: C-115

BORING LOG NO. SB-6

Page 1 of 1

PROJECT: EVRO Community Improvement Area

CLIENT: City of Fort Worth
Fort Worth, Texas

SITE: Evans and Rosedale
Fort Worth, Texas

| GRAPHIC LOG | LOCATION | DEPTH | MATERIAL DESCRIPTION | DEPTH (ft) | WATER LEVEL OBSERVATIONS | | SAMPLE INTERVAL | SAMPLE TIME |
|-------------|----------|-------|---|------------|--|---------------|-----------------|-------------|
| | | | | | SAMPLE TYPE | OVA/PID (ppm) | | |
| | | 4.0 | SILTY CLAY (CL-ML), brown, grass surface, moist | | <input checked="" type="checkbox"/> <1 | 0-1' | 0928 | |
| | | | | | <input checked="" type="checkbox"/> <1 | 1-2' | 0928 | |
| | | | | | <input checked="" type="checkbox"/> <1 | 2-3' | 0928 | |
| | | | | | <input checked="" type="checkbox"/> <1 | | | |

Boring Terminated at 4 Feet

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 95207647 TASK 3.6.GPJ TERRACON DATA TEMPLATE.GDT 10/10/22



AM 10/12/22

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
DPT

Notes:

This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing.

Abandonment Method:
Boring backfilled with bentonite chips upon completion.

WATER LEVEL OBSERVATIONS

No seepage encountered during drilling
Dry at completion

Terracon
8901 John W. Carpenter Fwy Ste 100
Dallas, TX

Boring Started: 09-12-2022

Boring Completed: 09-12-2022

Drill Rig: Geoprobe

Driller: Sunbelt

Project No.: 95207647 3.6

Exhibit: C-116

BORING LOG NO. SB-7

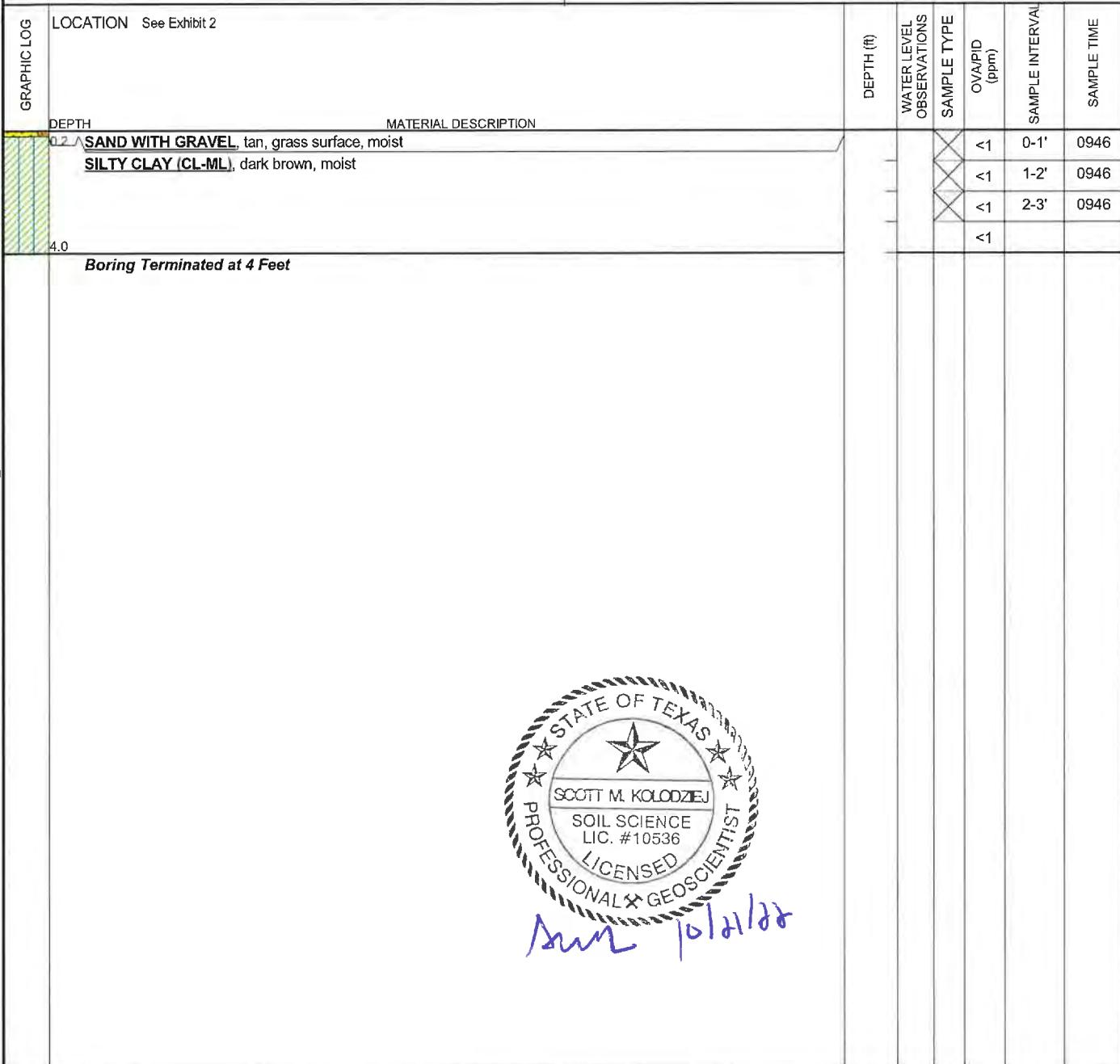
Page 1 of 1

| PROJECT: EVRO Community Improvement Area | | CLIENT: City of Fort Worth Fort Worth, Texas | | | |
|---|---------------|---|--|--|--------------------------|
| SITE: Evans and Rosedale Fort Worth, Texas | | | | | |
| GRAPHIC LOG | LOCATION | DEPTHS | | | SAMPLE TIME |
| | See Exhibit 2 | DEPTH | MATERIAL DESCRIPTION | DEPTH (ft) | WATER LEVEL OBSERVATIONS |
|  | | 4.0 | SILTY CLAY (CL-ML), dark brown, grass surface, moist | <1 | OVA/PID (ppm) |
| | | | | <1 | 0-1' 0954 |
| | | | | <1 | 1-2' 0954 |
| | | | | <1 | 2-3' 0954 |
| | | | | <1 | |
| <i>Boring Terminated at 4 Feet</i> | | | | | |
|  | | | | | |
| The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown. | | | | | |
| Advancement Method: DPT | | | | Notes: This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing. | |
| Abandonment Method: Boring backfilled with bentonite chips upon completion. | | | | | |
| WATER LEVEL OBSERVATIONS | | Boring Started: 09-12-2022 | | Boring Completed: 09-12-2022 | |
| No seepage encountered during drilling | | Drill Rig: Geoprobe | | Driller: Sunbelt | |
| Dry at completion | | Project No.: 95207647 3.6 | | Exhibit: C-117 | |

BORING LOG NO. SB-8

Page 1 of 1

| | |
|--|--|
| PROJECT: EVRO Community Improvement Area | CLIENT: City of Fort Worth Fort Worth, Texas |
| SITE: Evans and Rosedale Fort Worth, Texas | |



The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

| | | |
|---|---|--|
| <p>Advancement Method: DPT</p> <p>Abandonment Method: Boring backfilled with bentonite chips upon completion.</p> | | <p>Notes:</p> <p>This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing.</p> |
| <p>WATER LEVEL OBSERVATIONS</p> <p><i>No seepage encountered during drilling</i></p> <p><i>Dry at completion</i></p> |  <p>8901 John W Carpenter Fwy Ste 100 Dallas, TX</p> | <p>Boring Started: 09-12-2022 Boring Completed: 09-12-2022</p> <p>Drill Rig: Geoprobe Driller: Sunbelt</p> <p>Project No.: 95207647 3.6 Exhibit: C-118</p> |

BORING LOG NO. SB-9

Page 1 of 1

PROJECT: EVRO Community Improvement Area

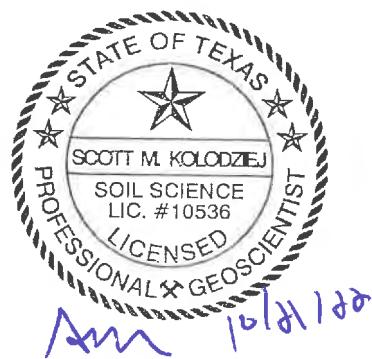
**CLIENT: City of Fort Worth
Fort Worth, Texas**

**SITE: Evans and Rosedale
Fort Worth, Texas**

| GRAPHIC LOG | LOCATION | | DEPTH | MATERIAL DESCRIPTION | DEPTH (ft) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | SAMPLE INTERVAL | SAMPLE TIME | |
|-------------|----------|--|-------|----------------------|------------|--------------------------|-------------|-----------------|-------------|------|
| | DEPTH | MATERIAL DESCRIPTION | | | | | | | | |
| | | SILTY CLAY (CL-ML) , brown, grass surface, moist -dark brown | 4.0 | | | | | <1 | 0-1' | 0940 |
| | | | | | | | | <1 | 1-2' | 0940 |
| | | | | | | | | <1 | 2-3' | 0940 |
| | | | | | | | | <1 | | |

Boring Terminated at 4 Feet

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 95207647 TASK 3.6.GPJ TERRACON DATA TEMPLATE.GDT 10/10/22



The stratification lines represent the approximate transition between differing soil types and/or rock types;
in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
DPT

Notes:

This boring log is not valid if separated from the original report.
USCS designation is an approximation based on field observation
and is not based on laboratory testing.

Abandonment Method:
Boring backfilled with bentonite chips upon completion.

WATER LEVEL OBSERVATIONS

No seepage encountered during drilling
Dry at completion

Terracon
8901 John W Carpenter Fwy Ste 100
Dallas, TX

Boring Started: 09-12-2022

Boring Completed: 09-12-2022

Drill Rig: Geoprobe

Driller: Sunbelt

Project No.: 95207647 3.6

Exhibit: C-119

BORING LOG NO. SB-10

Page 1 of 1

| PROJECT: EVRO Community Improvement Area | | CLIENT: City of Fort Worth Fort Worth, Texas | | | |
|--|---|---|--------------------------|---|------------------------------|
| SITE: Evans and Rosedale Fort Worth, Texas | | | | | |
| GRAPHIC LOG | LOCATION See Exhibit 2 | | | | DEPTH (ft) |
| | DEPTH | MATERIAL DESCRIPTION | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | |
| | <u>SILTY CLAY (CL-ML)</u> , dark brown, grass surface, moist -tree roots at 1' | | <1 | 0-1' | 1034 |
| 3.5 | | | <1 | 1-2' | 1034 |
| 4.0 | <u>LIMESTONE</u> , tan, dry <i>Boring Terminated at 4 Feet</i> | | <1 | 2-3' | 1034 |
| | | | <1 | | |
| | | | | | |
| <p>The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.</p> | | | | | |
| Advancement Method: DPT | | | | Notes: This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing. | |
| Abandonment Method: Boring backfilled with bentonite chips upon completion. | | | | | |
| WATER LEVEL OBSERVATIONS | | | | Boring Started: 09-12-2022 | Boring Completed: 09-12-2022 |
| No seepage encountered during drilling Dry at completion | | | | Drill Rig: Geoprobe | Driller: Sunbelt |
| | | Terracon | | Project No.: 95207647 3.6 | Exhibit: C-120 |
| | | 8901 John W Carpenter Fwy Ste 100 Dallas, TX | | | |

BORING LOG NO. SB-11

Page 1 of 1

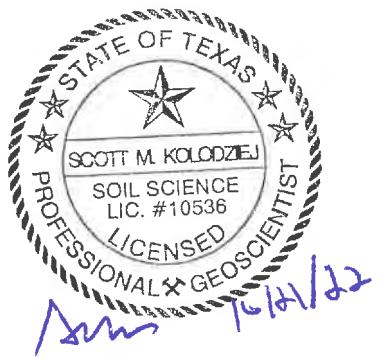
PROJECT: EVRO Community Improvement Area

**CLIENT: City of Fort Worth
Fort Worth, Texas**

**SITE: Evans and Rosedale
Fort Worth, Texas**

| GRAPHIC LOG | LOCATION See Exhibit 2 | | DEPTH (ft) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | OVA/PID (ppm) | SAMPLE INTERVAL | SAMPLE TIME |
|------------------------------------|------------------------|--|------------|--------------------------|--|---------------|-----------------|-------------|
| | DEPTH | MATERIAL DESCRIPTION | | | | | | |
| | 4.0 | SILTY CLAY (CL-ML), dark brown, grass surface, moist | | | <input checked="" type="checkbox"/> <1 | 0-1' | 1026 | |
| <i>Boring Terminated at 4 Feet</i> | | | | | | | | |

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 95207647 TASK 3.6.GPJ TERRACON DATA TEMPLATE.GDT 10/10/22



The stratification lines represent the approximate transition between differing soil types and/or rock types;
in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
DPT

Notes:

This boring log is not valid if separated from the original report.
USCS designation is an approximation based on field observation
and is not based on laboratory testing.

Abandonment Method:
Boring backfilled with bentonite chips upon completion.

WATER LEVEL OBSERVATIONS

No seepage encountered during drilling
Dry at completion

Terracon
8901 John W Carpenter Fwy Ste 100
Dallas, TX

Boring Started: 09-12-2022

Boring Completed: 09-12-2022

Drill Rig: Geoprobe

Driller: Sunbelt

Project No.: 95207647 3.6

Exhibit: C-121

BORING LOG NO. SGP-1

Page 1 of 1

| | |
|--|--|
| PROJECT: EVRO Community Improvement Area | CLIENT: City of Fort Worth Fort Worth, Texas |
| SITE: Evans and Rosedale Fort Worth, Texas | |

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

| | | |
|---|--|---|
| Advancement Method: DPT/SFA | | Notes: This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing. |
| Abandonment Method: | | |
| WATER LEVEL OBSERVATIONS | | |
| <i>No seepage encountered during drilling</i> | | Boring Started: 09-12-2022 Boring Completed: 09-12-2022 |
| <i>Dry at completion</i> | | Drill Rig: Geoprobe Driller: Sunbell |
| | | Project No.: 95207647 3.6 Exhibit: C-221 |

BORING LOG NO. SGP-2

Page 1 of 1

BORING LOG NO. SGP-3

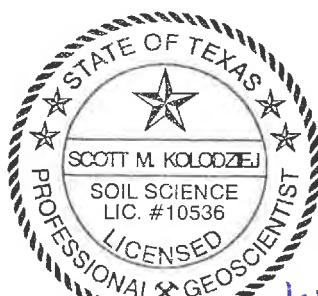
Page 1 of 1

PROJECT: EVRO Community Improvement Area

**CLIENT: City of Fort Worth
Fort Worth, Texas**

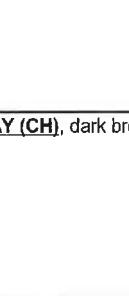
**SITE: Evans and Rosedale
Fort Worth, Texas**

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 95207647 TASK 3.6.GPJ TERRACON DATA TEMPLATE.GDT 10/10/22

| GRAPHIC LOG | LOCATION See Exhibit 2 | DEPTH | MATERIAL DESCRIPTION | DEPTH (ft) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | OVA/PID (ppm) | SAMPLE INTERVAL | SAMPLE TIME | |
|---|------------------------|--|---------------------------------|---|------------------------------|-------------|---------------|-----------------|-------------|--|
| | | | | | | | | | | |
| | | 5.0 | CLAY (CH), brown, grass surface | 20.6 | | | | | | |
| <i>Boring Terminated at 5 Feet</i> | | | | | | | | | | |
|  <p>The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.</p> | | | | | | | | | | |
| Advancement Method: Solid Flight Auger | | | | Notes: This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing. | | | | | | |
| Abandonment Method: | | | | | | | | | | |
| WATER LEVEL OBSERVATIONS | |  8901 John W Carpenter Pwy Ste 100 Dallas, TX | | Boring Started: 09-12-2022 | Boring Completed: 09-12-2022 | | | | | |
| | | | | Drill Rig: Geoprobe | Driller: Sunbelt | | | | | |
| | | | | Project No.: 95207647 3.6 | Exhibit: C-225 | | | | | |

BORING LOG NO. SGP-4

Page 1 of 1

| PROJECT: EVRO Community Improvement Area | | CLIENT: City of Fort Worth Fort Worth, Texas | | | |
|---|---|---|-------|--|------------------------------|
| SITE: Evans and Rosedale Fort Worth, Texas | | | | | |
| GRAPHIC LOG | LOCATION See Exhibit 2 | | DEPTH | MATERIAL DESCRIPTION | DEPTH (ft) |
| |  | CLAY (CH), dark brown, grass surface | | | |
| <i>Boring Terminated at 5 Feet</i> | | | | | |
|  <p>The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.</p> | | | | | |
| Advancement Method: Solid Flight Auger | | | | Notes: This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing. | |
| Abandonment Method: | | | | | |
| WATER LEVEL OBSERVATIONS | | Terracon | | Boring Started: 09-12-2022 | Boring Completed: 09-12-2022 |
| | | 8901 John W Carpenter Fwy Ste 100 Dallas, TX | | Drill Rig: Geoprobe | Driller: Sunbelt |
| | | | | Project No.: 95207647 3.6 | Exhibit: C-228 |

BORING LOG NO. SGP-5

Page 1 of 1

PROJECT: EVRO Community Improvement Area

**CLIENT: City of Fort Worth
Fort Worth, Texas**

**SITE: Evans and Rosedale
Fort Worth, Texas**

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 95207647 TASK 3.6.GPJ TERRACON DATA TEMPLATE.GDT 10/10/22

| GRAPHIC LOG | LOCATION | DEPTH | MATERIAL DESCRIPTION | DEPTH (ft) | WATER LEVEL OBSERVATIONS | | SAMPLE TYPE | SAMPLE INTERVAL | SAMPLE TIME |
|---|----------|-------|--|------------|--|----------------------------|-------------|------------------------------|-------------|
| | | | | | OVA/PID (ppm) | <1 | | | |
| | | 5.0 | CLAY (CH) , brown, grass surface -red brick fragments at 1', some calcareous nodules | 5 | | <1 | | 3-5' | 0847 |
| <i>Boring Terminated at 5 Feet</i> | | | | | | | | | |
| The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown. | | | | | | | | | |
| Advancement Method: DPT/SFA | | | | | Notes: This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing. | | | | |
| Abandonment Method: | | | | | | | | | |
| WATER LEVEL OBSERVATIONS | | | | | | Boring Started: 09-12-2022 | | Boring Completed: 09-12-2022 | |
| | | | | | | Drill Rig: Geoprobe | | Driller: Sunbelt | |
| | | | | | | Project No.: 95207647 3.6 | | Exhibit: C-225 | |



Terracon
8901 John W Carpenter Fwy Ste 100
Dallas, TX

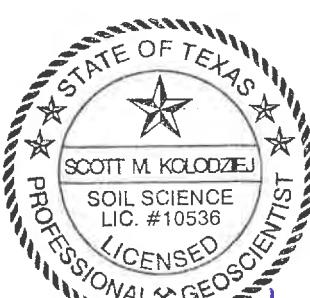
BORING LOG NO. SGP-6

Page 1 of 1

PROJECT: EVRO Community Improvement Area

**CLIENT: City of Fort Worth
Fort Worth, Texas**

SITE: Evans and Rosedale
Fort Worth, Texas

| GRAPHIC LOG | LOCATION See Exhibit 2 | | DEPTH (ft) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | OVA/PID (ppm) | SAMPLE INTERVAL | SAMPLE TIME |
|---|---|--|------------|--|-------------|------------------------------|-----------------|-------------|
| | DEPTH | MATERIAL DESCRIPTION | | | | | | |
|  | CLAY (CH) , dark brown, grass surface -red brick fragments at 1' 5.0 | | 5 | X | ≤1 | ≤1 | 1-3' | 0842 |
| Boring Terminated at 5 Feet | | | | | | | | |
|  <p>The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.</p> | | | | | | | | |
| Advancement Method: DPT/SFA | | | | Notes: This boring log is not valid if separated from the original report. USCS designation is an approximation based on field observation and is not based on laboratory testing. | | | | |
| Abandonment Method: | | | | | | | | |
| WATER LEVEL OBSERVATIONS | |  8901 John W Carpenter Fwy Ste 100 Dallas, TX | | Boring Started: 09-12-2022 | | Boring Completed: 09-12-2022 | | |
| | | | | Drill Rig: Geoprobe | | Driller: Sunbelt | | |
| | | | | Project No.: 95207647 3.6 | | Exhibit: C-228 | | |

APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY



October 10, 2022

Kyle Lindquist
Terracon
1801 Handley Ederville Rd
Ft Worth, TX 76118
TEL: (817) 268-8600
FAX (817) 268-8602

Order No.: 2209090

RE: Rosedale

Dear Kyle Lindquist:

DHL Analytical, Inc. received 56 sample(s) on 9/13/2022 for the analyses presented in the following report.

REVISION#1: This revision consists of correcting the Case Narrative (R3-08) as per the client. Please replace the original report with this revised report.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-22-28



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2300 Double Creek Dr. Round Rock, TX 78664

Phone 512.388.8222

Web: www.dhlanalytical.com

Email: login@dhlanalytical.com

CHAIN-OF-CUSTODY

PAGE 1 OF 4

| | | | | | | | | | | | | | | | |
|---|--------------------|--------------|-----------------|------------------------------------|-----------|-----------------|--------------|---|----------|--------------------------------|-------------------------------|---|---|--------------------------------------|--|
| CLIENT: Terracom | | | | | | | | LABORATORY USE ONLY | | | | | | | |
| ADDRESS: 1801 Handley Edenville Rd, FtW, TX | | | | PO#: | | | | DHL WORKORDER #: 2209090 | | | | | | | |
| PHONE: 817.268.8600 EMAIL: kyle.lindquist@terracom.com | | | | PROJECT LOCATION OR NAME: Rosedale | | | | | | | | | | | |
| DATA REPORTED TO: Kyle Lindquist | | | | CLIENT PROJECT # 95207647 Task 3.6 | | | | COLLECTOR: | | | | | | | |
| ADDITIONAL REPORT COPIES TO: | | | | | | | | | | | | | | | |
| Authorize 5% surcharge for TRRP report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Lab Use Only | W=WATER | | SE=SEDIMENT | | # of Containers | PRESERVATION | | ANALYSES | | | | | | |
| | | L=LIQUID | S=SOIL | P=PAINT | SL=SLUDGE | | HCl | HNO ₃ | | H ₂ SO ₄ | NaOH <input type="checkbox"/> | Zn Acetate <input type="checkbox"/> | ICE <input checked="" type="checkbox"/> | UNPRESERVED <input type="checkbox"/> | |
| Field Sample I.D. | | DHL Lab # | Collection Date | Collection Time | Matrix | Container Type | | | | | | | | | |
| MW-1 0-1 | 01 | 9/12/22 | 1254 | S | | | | | | | | | | | |
| 1-2 | 02 | | 1254 | | | | | | | | | | | X | |
| 2-3 | 03 | | 1254 | | | | | | | | | | | X | |
| 5-7 | 04 | | 1257 | | | | | | | | | | | X | |
| ↓ | 17-19 | 05 | 1306 | | | | | | | | | | | (X) Hold per Kyle L. @ 9/13/22 | |
| DUP-MW-1 | 5-7 | 06 | 1257 | | | | | | | | | | | X | |
| MW-2 | 0-1 | 07 | 1333 | | | | | | | | | | | X | |
| 1-2 | 08 | | 1333 | | | | | | | | | | | X | |
| 2-3 | 09 | | 1333 | | | | | | | | | | | X | |
| 5-7 | 10 | | 1333 | | | | | | | | | | | use MS/MSD | |
| ↓ | 15-16 | 11 | 1345 | | | | | | | | | | | (X) Hold per Kyle L. @ 9/13/22 | |
| SB-1 | 0-1 | 12 | 1130 | | | | | | | | | | | X | |
| ↓ | 1-2 | 13 | 1130 | | | | | | | | | | | (X) = ALL TPH, X VOC PER | |
| ↓ | 2-3 | 14 | 1130 | | | | | | | | | | | X | |
| SB-2 | 0-1 | 15 | 1111 | | | | | | | | | | | K. Lindquist X 9/21/22 (w) | |
| ↓ | 1-2 | 16 | 1111 | | | | | | | | | | | | |
| Relinquished By: (Sign) | | | | DATE/TIME | | Received by: | | TURN AROUND TIME (CALL FIRST FOR RUSH) | | | | LABORATORY USE ONLY | | | |
| | | | | 9/12/22 /1600 | | Tedy | | RUSH-1 DAY <input type="checkbox"/> RUSH-2 DAY <input type="checkbox"/> RUSH-3 DAY <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> | | | | RECEIVING TEMP (°C): 3.6°C, 1.4°C THERM #: 78 | | | |
| Relinquished By: (Sign) | | | | DATE/TIME | | Received by: | | DUE DATE <input type="checkbox"/> | | | | CUSTODY SEALS: <input type="checkbox"/> BROKEN <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> NOT USED | | | |
| Tedy | | | | 9/13/22 0837 | | dad.O.Whe | | | | | | CARRIER: <input type="checkbox"/> LSO <input checked="" type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> COURIER <input type="checkbox"/> OTHER <input type="checkbox"/> HAND DELIVERED | | | |
| Relinquished By: (Sign) | | | | DATE/TIME | | Received by: | | | | | | | | | |

DHL DISPOSAL @ 5.00 each

Return

DHL COC REV 3 | MAR 2021



2300 Double Creek Dr. Round Rock, TX 78664

Phone 512.388.8222

Web: www.dhlanalytical.com

Email: login@dhlanalytical.com

CHAIN-OF-CUSTODY

PAGE 2 OF 4

| CLIENT: Terracom | | | | LABORATORY USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ADDRESS: 1901 Handley Edenville Rd, FtW, TX | | PO#: | | DHL WORKORDER #: 2209090 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PHONE: 817 268.8600 EMAIL: Kyle.lindquist@Terracom | | PROJECT LOCATION OR NAME: Rosedale | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATA REPORTED TO: Kyle Lindquist | | CLIENT PROJECT # 95207647 Task 3.6 | | COLLECTOR: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ADDITIONAL REPORT COPIES TO: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Authorize 5% surcharge for TRRP report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Lab Use Only | W=WATER | SE=SEDIMENT | # of Containers | PRESERVATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | L=Liquid | P=PAINT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field Sample I.D. | DHL Lab # | S=SOLI | SL=SLUDGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SO=SOLID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Collection Date | Collection Time | Matrix | Container Type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>#</th> <th>HCl</th> <th>HNO₃</th> <th>H₂SO₄</th> <th>NaOH</th> <th>Zn Acetate</th> <th><input checked="" type="checkbox"/> UNPRESERVED</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>13</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>16</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>17</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>18</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>19</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>21</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>22</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>23</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>24</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>25</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>26</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>27</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>28</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>29</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>30</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>31</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>32</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> | | | | | | # | HCl | HNO ₃ | H ₂ SO ₄ | NaOH | Zn Acetate | <input checked="" type="checkbox"/> UNPRESERVED | 1 | | | | | | | 2 | | | | | | | 3 | | | | | | | 4 | | | | | | | 5 | | | | | | | 6 | | | | | | | 7 | | | | | | | 8 | | | | | | | 9 | | | | | | | 10 | | | | | | | 11 | | | | | | | 12 | | | | | | | 13 | | | | | | | 14 | | | | | | | 15 | | | | | | | 16 | | | | | | | 17 | | | | | | | 18 | | | | | | | 19 | | | | | | | 20 | | | | | | | 21 | | | | | | | 22 | | | | | | | 23 | | | | | | | 24 | | | | | | | 25 | | | | | | | 26 | | | | | | | 27 | | | | | | | 28 | | | | | | | 29 | | | | | | | 30 | | | | | | | 31 | | | | | | | 32 | | | | | | |
| # | HCl | HNO ₃ | H ₂ SO ₄ | NaOH | Zn Acetate | <input checked="" type="checkbox"/> UNPRESERVED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| [METHOD 8260] | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TPH 1005 | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| O+P PEST 8270 | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 608.3 | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DISS. METALS | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ALKALINITY | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TCLP-METALS | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p style="text-align: center;">Total Lead Hold</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FIELD NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(X) = All Pb R/K. Lindquist (22/22 cm)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Relinquished By: (Sign) | DATE/TIME | Received by: | TURN AROUND TIME (CALL FIRST FOR RUSH) | LABORATORY USE ONLY |
| | 9/12/22 1602 | Felix | RUSH-1 DAY <input type="checkbox"/> RUSH-2 DAY <input type="checkbox"/> RUSH-3 DAY <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DUE DATE <input type="checkbox"/> | RECEIVING TEMP (°C): 3.6°C, 1.4°C |
| Relinquished By: (Sign) | DATE/TIME | Received by: | THERM #: 78 | |
| Felix | 9/13/22 0837 | Xiaolu | CUSTODY SEALS: <input type="checkbox"/> BROKEN <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> NOT USED | |
| Relinquished By: (Sign) | DATE/TIME | Received by: | CARRIER: <input type="checkbox"/> LSO <input checked="" type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> COURIER <input type="checkbox"/> OTHER <input type="checkbox"/> HAND DELIVERED | |

DHL DISPOSAL @ 5.00 each

Return

DHL COC REV 3 | MAR 2021



2300 Double Creek Dr. Round Rock, TX 78664

Phone 512.388.8222

Web: www.dhlanalytical.com

Email: login@dhlanalytical.com

CHAIN-OF-CUSTODY

PAGE 3 OF 4

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| CLIENT: Terracom ADDRESS: 1901 Handleg Edenville Rd, FtW, TX PHONE: 817-268-8606 EMAIL: Kyle.lindquist@Terracom | | | | PO#: PROJECT LOCATION OR NAME: Rosedale CLIENT PROJECT # 95207647 Task 3.6 | | | | LABORATORY USE ONLY DHL WORKORDER #: 2209090 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ADDITIONAL REPORT COPIES TO: | | | | | | | | COLLECTOR: <i>Total Lead</i> <i>Help</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Authorize 5% surcharge for TRRP report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Lab Use Only DHL Lab # | W=WATER L=LIQUID S=SOIL SO=SOLID | | SE=SEDIMENT P=PAINT SL=SLUDGE | | # of Containers | PRESERVATION <input type="checkbox"/> HCl <input type="checkbox"/> NaOH <input type="checkbox"/> Zn Acetate <input type="checkbox"/> <input checked="" type="checkbox"/> UNPRESERVED <input type="checkbox"/> | | ANALYSES <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> [METHOD 8260] <input checked="" type="checkbox"/> TPH 1005 <input type="checkbox"/> HOLD 2006 <input type="checkbox"/> <input type="checkbox"/> GR0 8015 <input type="checkbox"/> DRO 1015 <input type="checkbox"/> <input type="checkbox"/> VOC 8260 <input checked="" type="checkbox"/> VOC 6241.1 <input type="checkbox"/> <input type="checkbox"/> SVOC 8270 <input type="checkbox"/> SVOC 625.1 <input type="checkbox"/> <input type="checkbox"/> PAH 8270 <input type="checkbox"/> HOLD PAH <input type="checkbox"/> <input type="checkbox"/> PEST 8270 <input type="checkbox"/> 625.1 <input type="checkbox"/> O-P PEST 8270 <input type="checkbox"/> <input type="checkbox"/> PCB 8082 <input type="checkbox"/> 608.3 <input type="checkbox"/> PCB 8270 <input type="checkbox"/> 625.1 <input type="checkbox"/> <input type="checkbox"/> HERB 8321 <input type="checkbox"/> T PHOS <input type="checkbox"/> AMMONIA <input type="checkbox"/> <input type="checkbox"/> METALS 6020 <input type="checkbox"/> 200.8 <input type="checkbox"/> DISS. METALS <input type="checkbox"/> <input type="checkbox"/> RCRA 8 <input type="checkbox"/> TX11 <input type="checkbox"/> <input type="checkbox"/> pH ⁺ HEX CHROM <input type="checkbox"/> ALKALINITY <input type="checkbox"/> COD <input type="checkbox"/> <input type="checkbox"/> ANIONS 300 <input type="checkbox"/> 9056 <input type="checkbox"/> <input type="checkbox"/> TCPL-SVOC <input type="checkbox"/> VOC <input type="checkbox"/> PEST <input type="checkbox"/> HERB <input type="checkbox"/> <input type="checkbox"/> TCPL-METALS <input type="checkbox"/> RCRA 8 <input type="checkbox"/> TX-11 <input type="checkbox"/> Pb <input type="checkbox"/> <input type="checkbox"/> RCI <input type="checkbox"/> IGN <input type="checkbox"/> DGAS <input type="checkbox"/> OIL&GREASE <input type="checkbox"/> <input type="checkbox"/> TDS <input type="checkbox"/> TSS <input type="checkbox"/> % MOIST <input type="checkbox"/> CYANIDE <input type="checkbox"/> | | FIELD NOTES <i>(X)=All Pb</i> <i>X & K. Linquist</i> <i>X 9/22/22 (LW)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Field Sample I.D. | | | | | Collection Date Collection Time Matrix Container Type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tbody> <tr> <td>SB-8 0-1</td> <td>33</td> <td>a/12/22</td> <td>946</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>1-2</td> <td>34</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td>2-3</td> <td>35</td> <td>↓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SB-9 0-1</td> <td>36</td> <td></td> <td>940</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td>1-2</td> <td>37</td> <td>↓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td>2-3</td> <td>38</td> <td>↓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SB-10 0-1</td> <td>39</td> <td></td> <td>1034</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td>1-2</td> <td>40</td> <td>↓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td>2-3</td> <td>41</td> <td>↓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SB-11 0-1</td> <td>42</td> <td></td> <td>1026</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td>1-2</td> <td>43</td> <td>↓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td>2-3</td> <td>44</td> <td>↓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SGP-1 0-1</td> <td>45</td> <td></td> <td>1123</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td>1-2</td> <td>46</td> <td>↓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td>2-3</td> <td>47</td> <td>↓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SGP-2 0-1</td> <td>48</td> <td>↓</td> <td>1103</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | | | | | | SB-8 0-1 | 33 | a/12/22 | 946 | | | | | | | | | | 1-2 | 34 | | | | | | | | | | ↓ | 2-3 | 35 | ↓ | | | | | | | | | SB-9 0-1 | 36 | | 940 | | | | | | | | | ↓ | 1-2 | 37 | ↓ | | | | | | | | | ↓ | 2-3 | 38 | ↓ | | | | | | | | | SB-10 0-1 | 39 | | 1034 | | | | | | | | | ↓ | 1-2 | 40 | ↓ | | | | | | | | | ↓ | 2-3 | 41 | ↓ | | | | | | | | | SB-11 0-1 | 42 | | 1026 | | | | | | | | | ↓ | 1-2 | 43 | ↓ | | | | | | | | | ↓ | 2-3 | 44 | ↓ | | | | | | | | | SGP-1 0-1 | 45 | | 1123 | | | | | | | | | ↓ | 1-2 | 46 | ↓ | | | | | | | | | ↓ | 2-3 | 47 | ↓ | | | | | | | | | SGP-2 0-1 | 48 | ↓ | 1103 | | | | | | | | |
| SB-8 0-1 | 33 | a/12/22 | 946 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1-2 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ↓ | 2-3 | 35 | ↓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB-9 0-1 | 36 | | 940 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ↓ | 1-2 | 37 | ↓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ↓ | 2-3 | 38 | ↓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB-10 0-1 | 39 | | 1034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ↓ | 1-2 | 40 | ↓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ↓ | 2-3 | 41 | ↓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB-11 0-1 | 42 | | 1026 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ↓ | 1-2 | 43 | ↓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ↓ | 2-3 | 44 | ↓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SGP-1 0-1 | 45 | | 1123 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ↓ | 1-2 | 46 | ↓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ↓ | 2-3 | 47 | ↓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SGP-2 0-1 | 48 | ↓ | 1103 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By: (Sign) <i>Teddy</i> | | | | DATE/TIME <i>a/12/22 /1600</i> | | Received by: <i>Teddy</i> | | TURN AROUND TIME (CALL FIRST FOR RUSH) RUSH-1 DAY <input type="checkbox"/> RUSH-2 DAY <input type="checkbox"/> RUSH-3, DAY <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DUE DATE <input type="checkbox"/> | | LABORATORY USE ONLY RECEIVING TEMP (°C): <u>3.6°C</u> , <u>1.4°C</u> THERM #: <u>78</u> CUSTODY SEALS: <input type="checkbox"/> BROKEN <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> NOT USED CARRIER: <input type="checkbox"/> LSO <input checked="" type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> COURIER <input type="checkbox"/> OTHER <input type="checkbox"/> HAND DELIVERED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By: (Sign) <i>Teddy</i> | | | | DATE/TIME <i>9/13/22 0837</i> | | Received by: <i>Paul.Oliver</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By: (Sign) | | | | DATE/TIME | | Received by: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Phone 512.388.8222

Web: www.dhlanalytical.com

Email: login@dhlanalytical.com

CHAIN-OF-CUSTODY

PAGE 4 OF 4

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ORIGIN ID:MWLA 18175912831
TOMERLIN, TRACY
TERRACON CONSULTANTS INC.
1801 HANDLEY EDERVILLE ROAD

FORT WORTH, TX 76118
UNITED STATES US

SHIP DATE: 12SEP22
ACTWGT: 50.00 LB
CAD: 250518926/WSX13600
DIMS: 26x14x14 IN

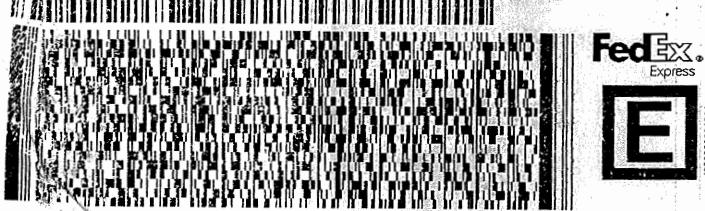
BILL SENDER

TO JOHN DUPONT
DHL ANALYTICAL, INC.
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

(2) 388-8222 REF: 95207647_36

DEPT:



1 of 2
TRK# 0201 2778 8258 4428
MASTER

TUE - 13 SEP 10:30A
PRIORITY OVERNIGHT

78664
TX-US AUS

A8 BSMA



CUSTODY SEAL

DATE 9/12/22
SIGNATURE

DHL
ANALYTICAL

ORIGIN ID:MWLA 18175912831
TOMERLIN, TRACY
TERRACON CONSULTANTS INC.
1801 HANDLEY EDERVILLE ROAD

FORT WORTH, TX 76118
UNITED STATES US

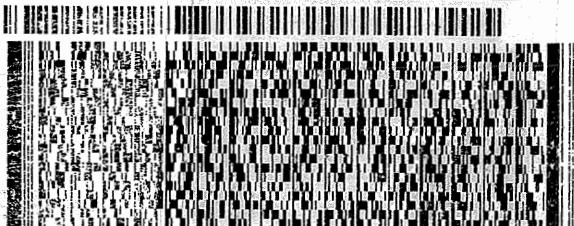
SHIP DATE: 12SEP22
ACTWTG: 50.00 LB
CAD: 250518926/WXI3600
DIMS: 26x14x14 IN

BILL SENDER

TO JOHN DUPONT
DHL ANALYTICAL, INC.
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(512) 388-8222 REF: 95207647_36
INV: PO: DEPT:

581J1E08CFF2D



2 of 2 TUE - 13 SEP 10:30A
MPS# 2778 8258 5940 PRIORITY OVERNIGHT
0263 0201
Mstr# 2778 8258 4428 78664
A8 BSMA TX-US AUS



CUSTODY SEAL
DATE 9/12/22
SIGNATURE *KJ*

DHL
ANALYTICAL

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name Terracon

Date Received: 9/13/2022

Work Order Number 2209090

Received by: KAO

Checklist completed by: 
Signature

9/13/2022

Date

Reviewed by: 
Initials

9/13/2022

Date

Carrier name: FedEx 1day

| | | | |
|---|---|-----------------------------|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 3.6 °C / 1.4 °C |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> NA <input type="checkbox"/> |
| Water - pH<2 acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # |
| | Adjusted? | | Checked by _____ |
| Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # |
| | Adjusted? | | Checked by _____ |

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

| Laboratory Name: DHL Analytical, Inc. | | | | | | | |
|---|----------------|---|--|--|--|-----------------|-----------------|
| Laboratory Review Checklist: Reportable Data | | | | | | | |
| Project Name: Rosedale | | LRC Date: 9/30/22 | | | | | |
| Reviewer Name: Carlos Castro | | Laboratory Work Order: 2209090 | | | | | |
| Prep Batch Number(s): See Prep Dates Report | | Run Batch: See Analytical Dates Report | | | | | |
| # ¹ | A ² | Description | | | | Yes | No |
| | | Chain-of-Custody (C-O-C) | | | | NA ³ | NR ⁴ |
| R1 | OI | 1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? | | | | X | |
| | | 2) Were all departures from standard conditions described in an exception report? | | | | X | |
| R2 | OI | Sample and Quality Control (QC) Identification | | | | | |
| | | 1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers? | | | | X | |
| | | 2) Are all laboratory ID numbers cross-referenced to the corresponding QC data? | | | | X | |
| R3 | OI | Test Reports | | | | | |
| | | 1) Were all samples prepared and analyzed within holding times? | | | | X | |
| | | 2) Other than those results < MQL, were all other raw values bracketed by calibration standards? | | | | X | |
| | | 3) Were calculations checked by a peer or supervisor? | | | | X | |
| | | 4) Were all analyte identifications checked by a peer or supervisor? | | | | X | |
| | | 5) Were sample detection limits reported for all analytes not detected? | | | | X | |
| | | 6) Were all results for soil and sediment samples reported on a dry weight basis? | | | | X | |
| | | 7) Were % moisture (or solids) reported for all soil and sediment samples? | | | | X | |
| | | 8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035? | | | | X | R3-08 |
| | | 9) If required for the project, TICs reported? | | | | X | |
| R4 | O | Surrogate Recovery Data | | | | | |
| | | 1) Were surrogates added prior to extraction? | | | | X | |
| | | 2) Were surrogate percent recoveries in all samples within the laboratory QC limits? | | | | X | |
| R5 | OI | Test Reports/Summary Forms for Blank Samples | | | | | |
| | | 1) Were appropriate type(s) of blanks analyzed? | | | | X | |
| | | 2) Were blanks analyzed at the appropriate frequency? | | | | X | |
| | | 3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? | | | | X | |
| | | 4) Were blank concentrations < MDL? | | | | X | R5-04 |
| | | 5) For analyte(s) detected in a blank sample, was the concentration, unadjusted for sample specific factors, in all associated field samples, greater than 10 times the concentration in the blank sample? | | | | X | R5-05 |
| R6 | OI | Laboratory Control Samples (LCS): | | | | | |
| | | 1) Were all COCs included in the LCS? | | | | X | |
| | | 2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? | | | | X | |
| | | 3) Were LCSs analyzed at the required frequency? | | | | X | |
| | | 4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? | | | | X | R6-04 |
| | | 5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs? | | | | X | |
| | | 6) Was the LCSD RPD within QC limits (if applicable)? | | | | X | |
| R7 | OI | Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data | | | | | |
| | | 1) Were the project/method specified analytes included in the MS and MSD? | | | | X | |
| | | 2) Were MS/MSD analyzed at the appropriate frequency? | | | | X | |
| | | 3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? | | | | X | R7-03 |
| | | 4) Were MS/MSD RPDs within laboratory QC limits? | | | | X | R7-04 |
| R8 | OI | Analytical Duplicate Data | | | | | |
| | | 1) Were appropriate analytical duplicates analyzed for each matrix? | | | | X | |
| | | 2) Were analytical duplicates analyzed at the appropriate frequency? | | | | X | |
| | | 3) Were RPDs or relative standard deviations within the laboratory QC limits? | | | | X | |
| R9 | OI | Method Quantitation Limits (MQLs): | | | | | |
| | | 1) Are the MQLs for each method analyte included in the laboratory data package? | | | | X | |
| | | 2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? | | | | X | |
| | | 3) Are unadjusted MQLs and DCSSs included in the laboratory data package? | | | | X | |
| R10 | OI | Other Problems/Anomalies | | | | | |
| | | 1) Are all known problems/anomalies/special conditions noted in this LRC and ER? | | | | X | |
| | | 2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results? | | | | X | |
| | | 3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package? | | | | X | |

Laboratory Name: DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

| Project Name: | Rosedale | LRC Date: | 9/30/22 | | | | |
|-----------------------|-----------------------|---|-----------------------------|----|-----------------|-----------------|------------------|
| Reviewer Name: | Carlos Castro | Laboratory Work Order: | 2209090 | | | | |
| Prep Batch Number(s): | See Prep Dates Report | Run Batch: | See Analytical Dates Report | | | | |
| # ¹ | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| S1 | OI | Initial Calibration (ICAL) | | | | | |
| | | 1) Were response factors and/or relative response factors for each analyte within QC limits? | X | | | | |
| | | 2) Were percent RSDs or correlation coefficient criteria met? | X | | | | |
| | | 3) Was the number of standards recommended in the method used for all analytes? | X | | | | |
| | | 4) Were all points generated between the lowest and highest standard used to calculate the curve? | X | | | | |
| | | 5) Are ICAL data available for all instruments used? | X | | | | |
| | | 6) Has the initial calibration curve been verified using an appropriate second source standard? | X | | | | |
| S2 | OI | Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB): | | | | | |
| | | 1) Was the CCV analyzed at the method-required frequency? | X | | | | |
| | | 2) Were percent differences for each analyte within the method-required QC limits? | | X | | | S2-02 |
| | | 3) Was the ICAL curve verified for each analyte? | X | | | | |
| | | 4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL? | X | | | | |
| S3 | O | Mass Spectral Tuning: | | | | | |
| | | 1) Was the appropriate compound for the method used for tuning? | X | | | | |
| | | 2) Were ion abundance data within the method-required QC limits? | X | | | | |
| S4 | O | Internal Standards (IS): | | | | | |
| | | 1) Were IS area counts and retention times within the method-required QC limits? | X | | | | |
| S5 | OI | Raw Data (NELAC Section 5.5.10): | | | | | |
| | | 1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst? | X | | | | |
| | | 2) Were data associated with manual integrations flagged on the raw data? | X | | | | |
| S6 | O | Dual Column Confirmation | | | | | |
| | | 1) Did dual column confirmation results meet the method-required QC? | | | X | | |
| S7 | O | Tentatively Identified Compounds (TICs): | | | | | |
| | | 1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks? | | | X | | |
| S8 | I | Interference Check Sample (ICS) Results: | | | | | |
| | | 1) Were percent recoveries within method QC limits? | X | | | | |
| S9 | I | Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions | | | | | |
| | | 1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method? | X | | | | |
| S10 | OI | Method Detection Limit (MDL) Studies | | | | | |
| | | 1) Was a MDL study performed for each reported analyte? | X | | | | |
| | | 2) Is the MDL either adjusted or supported by the analysis of DCSs? | X | | | | |
| S11 | OI | Proficiency Test Reports: | | | | | |
| | | 1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies? | X | | | | |
| S12 | OI | Standards Documentation | | | | | |
| | | 1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources? | X | | | | |
| S13 | OI | Compound/Analyte Identification Procedures | | | | | |
| | | 1) Are the procedures for compound/analyte identification documented? | X | | | | |
| S14 | OI | Demonstration of Analyst Competency (DOC) | | | | | |
| | | 1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C? | X | | | | |
| | | 2) Is documentation of the analyst's competency up-to-date and on file? | X | | | | |
| S15 | OI | Verification/Validation Documentation for Methods (NELAC Chapter 5) | | | | | |
| | | 1) Are all the methods used to generate the data documented, verified, and validated, where applicable? | X | | | | |
| S16 | OI | Laboratory Standard Operating Procedures (SOPs): | | | | | |
| | | 1) Are laboratory SOPs current and on file for each method performed? | X | | | | |

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) The amount of analyte measured in the duplicate,
 - b) The calculated RPD, and
 - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for each “No” or “Not Reviewed (NR)” item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory is not accredited under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on February 23-26 2021. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name: John DuPont
Official Title: General Manager

Signature

10/10/22

Date

Name: Dr. Derhsing Luu
Official Title: Technical Director

CLIENT: Terracon
Project: Rosedale
Lab Order: 2209090

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

Method TX1005 - Total Petroleum Hydrocarbons Analysis
Method SW8260D - Volatile Organics Analysis (soil & water) (the compound Cyclohexane is not NELAP Certified)
Method SW6020B - Metals Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log in performed on 9/13/22. A total of 56 samples were received. For further login notes please refer to the Chain-of-Custody. The samples arrived in good condition and were properly packaged.

Exception Report R3-08

This exception is applicable to samples MW-1 17-19 and MW-2 15-16. All other samples for the Volatiles and TPH analyses were collected using the 5035 method.

As per the TCEQ-NELAP accreditation requirement the following must be noted: As of January 1, 2016, the TCEQ remediation division guidance on the collection of soil for VOC analysis requires the use of Method 5035 and will reject VOC data reported for soil samples collected and prepared using another method; this applies to remediation testing only. For analyses reported to TCEQ for waste characterization, TCLP testing or matrices other than soil, bulk sampling is allowed. For analyses reported to the Texas Railroad Commission, bulk sampling is allowed. NELAP requires a note that if 5035 sampling method for VOCs is not utilized, the results of samples collected in bulk containers for low level volatile components may be compromised. The client has been notified and has requested the Laboratory to proceed with analysis.

As per the TCEQ-NELAP accreditation requirement the following must be noted: For TX1005 analyses of soils, the samples were collected in 8 ounce jars. This is allowed in Method TX1005 and by regulatory agencies for specific situations. For analyses reported to the Texas Railroad Commission, bulk sampling is allowed. For analyses reported for the TCEQ PST program, for waste classification, or for remediation project where process knowledge can document that C6-C12 hydrocarbons are not present, then Method 1005 allows for bulk sampling. NELAP requires a note that if 5035 sampling method for TX1005 is not utilized and none of the exceptions are applicable, the results of samples collected in bulk containers for C6-C12 hydrocarbon components may be compromised. The client has been notified and has requested the Laboratory to proceed with analysis.

CLIENT: Terracon
Project: Rosedale
Lab Order: 2209090

CASE NARRATIVE

Exception Report R5-04

For Volatiles analysis performed on 9/22/22 (batch 107106) Toluene was detected below the reporting limit in the method blank (MB-107106)

Exception Report R5-05

For Volatiles analysis performed on 9/22/22 (batch 107106) the associated samples were below detection limits for Toluene. No further corrective actions were taken.

Exception Report R6-04

For Volatiles analysis performed on 9/13/22 and 9/14/22 (batches 107009 & 107035) the LCS recoveries were out of control limits for up to three compounds. These are flagged accordingly. No further corrective actions were taken.

Exception Report R7-03 and R7-04

For Volatiles analysis performed on 9/14/22 (batch 107035) the matrix spike duplicate recovery was slightly below control limits for five compounds. In addition, the matrix spike and matrix spike duplicate (batch 107035) had the RPD slightly above control limits for Naphthalene. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these compounds. No further corrective actions were taken.

For Volatiles analysis performed on 9/22/22 (batch 107106) the matrix spike and matrix spike duplicate recoveries were out of control limits for twenty compounds. This was due to matrix interference. These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these compounds. No further corrective actions were taken.

For Metals analysis performed on 9/29/22 (batch 107168) the matrix spike nad matrix spike duplicate recoveries were above control limits for Lead. These are flagged accordingly. The sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for this analyte. No further corrective actions were taken.

Exception Report R10-01

Per project specification, MS/MSDs are from workorder or project samples only.

Exception Report S2-02

CLIENT: Terracon
Project: Rosedale
Lab Order: 2209090

CASE NARRATIVE

For Volatiles analysis performed on 9/14/22 the recoveries of four compounds for the Initial Calibration Verification (ICV-220914) were below the method control limits specified in SW8260D (70-130% recovery). These are flagged accordingly in the QC summary report. The number of target compounds outside of the method control limits for the ICV are less than 20% of the total number of compounds being reported; this is allowed in SW8260D specifications. These compounds were within method control limits in the associated LCS. No further corrective actions were taken.

CLIENT: Terracon
Project: Rosedale
Lab Order: 2209090

Work Order Sample Summary

| Lab Smp ID | Client Sample ID | Tag Number | Date Collected | Date Recved |
|-------------------|-------------------------|-------------------|-----------------------|--------------------|
| 2209090-01 | MW-1 0-1 | | 09/12/22 12:54 PM | 9/13/2022 |
| 2209090-02 | MW-1 1-2 | | 09/12/22 12:54 PM | 9/13/2022 |
| 2209090-03 | MW-1 2-3 | | 09/12/22 12:54 PM | 9/13/2022 |
| 2209090-04 | MW-1 5-7 | | 09/12/22 12:57 PM | 9/13/2022 |
| 2209090-05 | MW-1 17-19 | | 09/12/22 01:06 PM | 9/13/2022 |
| 2209090-06 | Dup-MW-1 5-7 | | 09/12/22 12:57 PM | 9/13/2022 |
| 2209090-07 | MW-2 0-1 | | 09/12/22 01:33 PM | 9/13/2022 |
| 2209090-08 | MW-2 1-2 | | 09/12/22 01:33 PM | 9/13/2022 |
| 2209090-09 | MW-2 2-3 | | 09/12/22 01:33 PM | 9/13/2022 |
| 2209090-10 | MW-2 5-7 | | 09/12/22 01:33 PM | 9/13/2022 |
| 2209090-11 | MW-2 15-16 | | 09/12/22 01:45 PM | 9/13/2022 |
| 2209090-12 | SB-1 0-1 | | 09/12/22 11:30 AM | 9/13/2022 |
| 2209090-13 | SB-1 1-2 | | 09/12/22 11:30 AM | 9/13/2022 |
| 2209090-14 | SB-1 2-3 | | 09/12/22 11:30 AM | 9/13/2022 |
| 2209090-15 | SB-2 0-1 | | 09/12/22 11:11 AM | 9/13/2022 |
| 2209090-16 | SB-2 1-2 | | 09/12/22 11:11 AM | 9/13/2022 |
| 2209090-17 | SB-2 2-3 | | 09/12/22 11:11 AM | 9/13/2022 |
| 2209090-18 | SB-3 0-1 | | 09/12/22 10:56 AM | 9/13/2022 |
| 2209090-19 | SB-3 1-2 | | 09/12/22 10:56 AM | 9/13/2022 |
| 2209090-20 | SB-3 2-3 | | 09/12/22 10:56 AM | 9/13/2022 |
| 2209090-21 | SB-4 0-1 | | 09/12/22 09:21 AM | 9/13/2022 |
| 2209090-22 | SB-4 1-2 | | 09/12/22 09:21 AM | 9/13/2022 |
| 2209090-23 | SB-4 2-3 | | 09/12/22 09:21 AM | 9/13/2022 |
| 2209090-24 | SB-5 0-1 | | 09/12/22 09:14 AM | 9/13/2022 |
| 2209090-25 | SB-5 1-2 | | 09/12/22 09:14 AM | 9/13/2022 |
| 2209090-26 | SB-5 2-3 | | 09/12/22 09:14 AM | 9/13/2022 |
| 2209090-27 | SB-6 0-1 | | 09/12/22 09:28 AM | 9/13/2022 |
| 2209090-28 | SB-6 1-2 | | 09/12/22 09:28 AM | 9/13/2022 |
| 2209090-29 | SB-6 2-3 | | 09/12/22 09:28 AM | 9/13/2022 |
| 2209090-30 | SB-7 0-1 | | 09/12/22 09:54 AM | 9/13/2022 |
| 2209090-31 | SB-7 1-2 | | 09/12/22 09:54 AM | 9/13/2022 |
| 2209090-32 | SB-7 2-3 | | 09/12/22 09:54 AM | 9/13/2022 |
| 2209090-33 | SB-8 0-1 | | 09/12/22 09:46 AM | 9/13/2022 |
| 2209090-34 | SB-8 1-2 | | 09/12/22 09:46 AM | 9/13/2022 |
| 2209090-35 | SB-8 2-3 | | 09/12/22 09:46 AM | 9/13/2022 |
| 2209090-36 | SB-9 0-1 | | 09/12/22 09:40 AM | 9/13/2022 |
| 2209090-37 | SB-9 1-2 | | 09/12/22 09:40 AM | 9/13/2022 |
| 2209090-38 | SB-9 2-3 | | 09/12/22 09:40 AM | 9/13/2022 |

CLIENT: Terracon
Project: Rosedale
Lab Order: 2209090

Work Order Sample Summary

| Lab Smp ID | Client Sample ID | Tag Number | Date Collected | Date Recved |
|-------------------|-------------------------|-------------------|-----------------------|--------------------|
| 2209090-39 | SB-10 0-1 | | 09/12/22 10:34 AM | 9/13/2022 |
| 2209090-40 | SB-10 1-2 | | 09/12/22 10:34 AM | 9/13/2022 |
| 2209090-41 | SB-10 2-3 | | 09/12/22 10:34 AM | 9/13/2022 |
| 2209090-42 | SB-11 0-1 | | 09/12/22 10:26 AM | 9/13/2022 |
| 2209090-43 | SB-11 1-2 | | 09/12/22 10:26 AM | 9/13/2022 |
| 2209090-44 | SB-11 2-3 | | 09/12/22 10:26 AM | 9/13/2022 |
| 2209090-45 | SGP-1 0-1 | | 09/12/22 11:23 AM | 9/13/2022 |
| 2209090-46 | SGP-1 1-2 | | 09/12/22 11:23 AM | 9/13/2022 |
| 2209090-47 | SGP-1 2-3 | | 09/12/22 11:23 AM | 9/13/2022 |
| 2209090-48 | SGP-2 0-1 | | 09/12/22 11:03 AM | 9/13/2022 |
| 2209090-49 | SGP-2 1-2 | | 09/12/22 11:03 AM | 9/13/2022 |
| 2209090-50 | SGP-2 2-3 | | 09/12/22 11:03 AM | 9/13/2022 |
| 2209090-51 | SGP-5 3-5 | | 09/12/22 08:47 AM | 9/13/2022 |
| 2209090-52 | SGP-6 1-3 | | 09/12/22 08:42 AM | 9/13/2022 |
| 2209090-53 | TB-1 | | 09/12/22 | 9/13/2022 |
| 2209090-54 | TB-2 | | 09/12/22 | 9/13/2022 |
| 2209090-55 | Dup-SGP-1 0-1 | | 09/12/22 11:23 AM | 9/13/2022 |
| 2209090-56 | Dup-SB-2 0-1 | | 09/12/22 11:11 AM | 9/13/2022 |

Lab Order: 2209090
Client: Terracon
Project: Rosedale

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|--------------------------------|-------------------|----------|
| 2209090-01A | MW-1 0-1 | 09/12/22 12:54 PM | Soil | D2216 | Moisture Preparation | 09/13/22 02:58 PM | 107020 |
| | MW-1 0-1 | 09/12/22 12:54 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/14/22 09:55 AM | 107032 |
| 2209090-04A | MW-1 5-7 | 09/12/22 12:57 PM | Soil | SW5035A | Purge and Trap 5035 | 09/14/22 11:10 AM | 107035 |
| 2209090-04B | MW-1 5-7 | 09/12/22 12:57 PM | Soil | TX1005 | TX1005 Soil Prep | 09/15/22 12:38 PM | 107049 |
| 2209090-04C | MW-1 5-7 | 09/12/22 12:57 PM | Soil | D2216 | Moisture Preparation | 09/13/22 02:58 PM | 107020 |
| 2209090-05A | MW-1 17-19 | 09/12/22 01:06 PM | Soil | D2216 | Moisture Preparation | 09/23/22 04:00 PM | 107123 |
| | MW-1 17-19 | 09/12/22 01:06 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 09/22/22 10:14 AM | 107106 |
| | MW-1 17-19 | 09/12/22 01:06 PM | Soil | TX1005 | TX1005 Soil Prep | 09/23/22 08:22 AM | 107114 |
| 2209090-06A | Dup-MW-1 5-7 | 09/12/22 12:57 PM | Soil | SW5035A | Purge and Trap 5035 | 09/14/22 11:10 AM | 107035 |
| 2209090-06B | Dup-MW-1 5-7 | 09/12/22 12:57 PM | Soil | TX1005 | TX1005 Soil Prep | 09/15/22 12:38 PM | 107049 |
| 2209090-06C | Dup-MW-1 5-7 | 09/12/22 12:57 PM | Soil | D2216 | Moisture Preparation | 09/13/22 02:58 PM | 107020 |
| 2209090-07A | MW-2 0-1 | 09/12/22 01:33 PM | Soil | D2216 | Moisture Preparation | 09/13/22 02:58 PM | 107020 |
| | MW-2 0-1 | 09/12/22 01:33 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/14/22 09:55 AM | 107032 |
| 2209090-10A | MW-2 5-7 | 09/12/22 01:33 PM | Soil | SW5035A | Purge and Trap 5035 | 09/14/22 11:10 AM | 107035 |
| 2209090-10B | MW-2 5-7 | 09/12/22 01:33 PM | Soil | TX1005 | TX1005 Soil Prep | 09/15/22 12:38 PM | 107049 |
| 2209090-10C | MW-2 5-7 | 09/12/22 01:33 PM | Soil | D2216 | Moisture Preparation | 09/13/22 02:58 PM | 107020 |
| 2209090-11A | MW-2 15-16 | 09/12/22 01:45 PM | Soil | D2216 | Moisture Preparation | 09/23/22 04:00 PM | 107123 |
| | MW-2 15-16 | 09/12/22 01:45 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 09/22/22 10:14 AM | 107106 |
| | MW-2 15-16 | 09/12/22 01:45 PM | Soil | TX1005 | TX1005 Soil Prep | 09/23/22 08:22 AM | 107114 |
| 2209090-12A | SB-1 0-1 | 09/12/22 11:30 AM | Soil | D2216 | Moisture Preparation | 09/13/22 02:58 PM | 107020 |
| | SB-1 0-1 | 09/12/22 11:30 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/14/22 09:55 AM | 107032 |
| 2209090-15A | SB-2 0-1 | 09/12/22 11:11 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| | SB-2 0-1 | 09/12/22 11:11 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/14/22 09:55 AM | 107032 |
| 2209090-18A | SB-3 0-1 | 09/12/22 10:56 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| | SB-3 0-1 | 09/12/22 10:56 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/14/22 09:55 AM | 107032 |
| 2209090-21A | SB-4 0-1 | 09/12/22 09:21 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| | SB-4 0-1 | 09/12/22 09:21 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/14/22 09:55 AM | 107032 |
| 2209090-24A | SB-5 0-1 | 09/12/22 09:14 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |

Lab Order: 2209090
Client: Terracon
Project: Rosedale

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|--------------------------------|-------------------|----------|
| 2209090-24A | SB-5 0-1 | 09/12/22 09:14 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/14/22 09:55 AM | 107032 |
| 2209090-25A | SB-5 1-2 | 09/12/22 09:14 AM | Soil | D2216 | Moisture Preparation | 09/23/22 04:00 PM | 107123 |
| | SB-5 1-2 | 09/12/22 09:14 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/28/22 10:23 AM | 107168 |
| 2209090-27A | SB-6 0-1 | 09/12/22 09:28 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| | SB-6 0-1 | 09/12/22 09:28 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/14/22 09:55 AM | 107032 |
| 2209090-30A | SB-7 0-1 | 09/12/22 09:54 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| | SB-7 0-1 | 09/12/22 09:54 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/14/22 09:55 AM | 107032 |
| 2209090-33A | SB-8 0-1 | 09/12/22 09:46 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| | SB-8 0-1 | 09/12/22 09:46 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/14/22 09:55 AM | 107032 |
| 2209090-36A | SB-9 0-1 | 09/12/22 09:40 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| | SB-9 0-1 | 09/12/22 09:40 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/16/22 09:26 AM | 107053 |
| 2209090-37A | SB-9 1-2 | 09/12/22 09:40 AM | Soil | D2216 | Moisture Preparation | 09/23/22 04:00 PM | 107123 |
| | SB-9 1-2 | 09/12/22 09:40 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/28/22 10:23 AM | 107168 |
| 2209090-39A | SB-10 0-1 | 09/12/22 10:34 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| | SB-10 0-1 | 09/12/22 10:34 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/16/22 09:26 AM | 107053 |
| 2209090-42A | SB-11 0-1 | 09/12/22 10:26 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| | SB-11 0-1 | 09/12/22 10:26 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/16/22 09:26 AM | 107053 |
| 2209090-45A | SGP-1 0-1 | 09/12/22 11:23 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| | SGP-1 0-1 | 09/12/22 11:23 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/16/22 09:26 AM | 107053 |
| 2209090-48A | SGP-2 0-1 | 09/12/22 11:03 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| | SGP-2 0-1 | 09/12/22 11:03 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/16/22 09:26 AM | 107053 |
| 2209090-49A | SGP-2 1-2 | 09/12/22 11:03 AM | Soil | D2216 | Moisture Preparation | 09/23/22 04:00 PM | 107123 |
| | SGP-2 1-2 | 09/12/22 11:03 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/28/22 10:23 AM | 107168 |
| 2209090-51A | SGP-5 3-5 | 09/12/22 08:47 AM | Soil | SW5035A | Purge and Trap 5035 | 09/14/22 11:10 AM | 107035 |
| 2209090-51B | SGP-5 3-5 | 09/12/22 08:47 AM | Soil | TX1005 | TX1005 Soil Prep | 09/15/22 12:38 PM | 107049 |
| 2209090-51C | SGP-5 3-5 | 09/12/22 08:47 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| 2209090-52A | SGP-6 1-3 | 09/12/22 08:42 AM | Soil | SW5035A | Purge and Trap 5035 | 09/14/22 11:10 AM | 107035 |
| 2209090-52B | SGP-6 1-3 | 09/12/22 08:42 AM | Soil | TX1005 | TX1005 Soil Prep | 09/15/22 12:38 PM | 107049 |

Lab Order: 2209090
Client: Terracon
Project: Rosedale

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|------------|-------------|--------------------------------|-------------------|----------|
| 2209090-52C | SGP-6 1-3 | 09/12/22 08:42 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| 2209090-53A | TB-1 | 09/12/22 | Trip Blank | SW5030C | Purge and Trap Water GC/MS | 09/13/22 08:54 AM | 107009 |
| 2209090-54A | TB-2 | 09/12/22 | Trip Blank | SW5030C | Purge and Trap Water GC/MS | 09/13/22 08:54 AM | 107009 |
| 2209090-55A | Dup-SGP-1 0-1 | 09/12/22 11:23 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| | Dup-SGP-1 0-1 | 09/12/22 11:23 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/16/22 09:26 AM | 107053 |
| 2209090-56A | Dup-SB-2 0-1 | 09/12/22 11:11 AM | Soil | D2216 | Moisture Preparation | 09/13/22 03:46 PM | 107021 |
| | Dup-SB-2 0-1 | 09/12/22 11:11 AM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 09/16/22 09:26 AM | 107053 |

Lab Order: 2209090
Client: Terracon
Project: Rosedale

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|------------------------------|----------|----------|-------------------|-----------------|
| 2209090-01A | MW-1 0-1 | Soil | D2216 | Percent Moisture | 107020 | 1 | 09/14/22 09:15 AM | PMOIST_220913A |
| | MW-1 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107032 | 5 | 09/15/22 02:55 PM | ICP-MS5_220915A |
| 2209090-04A | MW-1 5-7 | Soil | SW8260D | Volatiles by 8260/5035 GC/MS | 107035 | 1 | 09/14/22 06:31 PM | GCMS2_220914A |
| 2209090-04B | MW-1 5-7 | Soil | TX1005 | Tx1005 TPH Soil | 107049 | 1 | 09/16/22 10:58 AM | GC12_220916A |
| 2209090-04C | MW-1 5-7 | Soil | D2216 | Percent Moisture | 107020 | 1 | 09/14/22 09:15 AM | PMOIST_220913A |
| 2209090-05A | MW-1 17-19 | Soil | SW8260D | 8260 Volatiles by GC/MS | 107106 | 1 | 09/22/22 02:22 PM | GCMS1_220922A |
| | MW-1 17-19 | Soil | D2216 | Percent Moisture | 107123 | 1 | 09/26/22 09:15 AM | PMOIST_220923A |
| | MW-1 17-19 | Soil | TX1005 | Tx1005 TPH Soil | 107114 | 1 | 09/23/22 12:18 PM | GC12_220923A |
| 2209090-06A | Dup-MW-1 5-7 | Soil | SW8260D | Volatiles by 8260/5035 GC/MS | 107035 | 1 | 09/14/22 06:59 PM | GCMS2_220914A |
| 2209090-06B | Dup-MW-1 5-7 | Soil | TX1005 | Tx1005 TPH Soil | 107049 | 1 | 09/16/22 11:07 AM | GC12_220916A |
| 2209090-06C | Dup-MW-1 5-7 | Soil | D2216 | Percent Moisture | 107020 | 1 | 09/14/22 09:15 AM | PMOIST_220913A |
| 2209090-07A | MW-2 0-1 | Soil | D2216 | Percent Moisture | 107020 | 1 | 09/14/22 09:15 AM | PMOIST_220913A |
| | MW-2 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107032 | 5 | 09/15/22 02:57 PM | ICP-MS5_220915A |
| 2209090-10A | MW-2 5-7 | Soil | SW8260D | Volatiles by 8260/5035 GC/MS | 107035 | 1 | 09/14/22 07:27 PM | GCMS2_220914A |
| 2209090-10B | MW-2 5-7 | Soil | TX1005 | Tx1005 TPH Soil | 107049 | 1 | 09/16/22 11:16 AM | GC12_220916A |
| 2209090-10C | MW-2 5-7 | Soil | D2216 | Percent Moisture | 107020 | 1 | 09/14/22 09:15 AM | PMOIST_220913A |
| 2209090-11A | MW-2 15-16 | Soil | SW8260D | 8260 Volatiles by GC/MS | 107106 | 1 | 09/22/22 02:50 PM | GCMS1_220922A |
| | MW-2 15-16 | Soil | D2216 | Percent Moisture | 107123 | 1 | 09/26/22 09:15 AM | PMOIST_220923A |
| | MW-2 15-16 | Soil | TX1005 | Tx1005 TPH Soil | 107114 | 1 | 09/23/22 12:27 PM | GC12_220923A |
| 2209090-12A | SB-1 0-1 | Soil | D2216 | Percent Moisture | 107020 | 1 | 09/14/22 09:15 AM | PMOIST_220913A |
| | SB-1 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107032 | 5 | 09/15/22 03:00 PM | ICP-MS5_220915A |
| 2209090-15A | SB-2 0-1 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| | SB-2 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107032 | 5 | 09/15/22 03:02 PM | ICP-MS5_220915A |
| 2209090-18A | SB-3 0-1 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| | SB-3 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107032 | 5 | 09/15/22 03:05 PM | ICP-MS5_220915A |
| 2209090-21A | SB-4 0-1 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| | SB-4 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107032 | 5 | 09/15/22 03:08 PM | ICP-MS5_220915A |
| 2209090-24A | SB-5 0-1 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |

Lab Order: 2209090
Client: Terracon
Project: Rosedale

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|------------------------------|----------|----------|-------------------|-----------------|
| 2209090-24A | SB-5 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107032 | 5 | 09/15/22 03:10 PM | ICP-MS5_220915A |
| 2209090-25A | SB-5 1-2 | Soil | D2216 | Percent Moisture | 107123 | 1 | 09/26/22 09:15 AM | PMOIST_220923A |
| | SB-5 1-2 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107168 | 5 | 09/29/22 11:38 AM | ICP-MS5_220929B |
| 2209090-27A | SB-6 0-1 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| | SB-6 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107032 | 5 | 09/15/22 03:13 PM | ICP-MS5_220915A |
| 2209090-30A | SB-7 0-1 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| | SB-7 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107032 | 5 | 09/15/22 03:15 PM | ICP-MS5_220915A |
| 2209090-33A | SB-8 0-1 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| | SB-8 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107032 | 5 | 09/15/22 02:12 PM | ICP-MS5_220915A |
| 2209090-36A | SB-9 0-1 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| | SB-9 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107053 | 5 | 09/19/22 10:51 AM | ICP-MS5_220919A |
| 2209090-37A | SB-9 1-2 | Soil | D2216 | Percent Moisture | 107123 | 1 | 09/26/22 09:15 AM | PMOIST_220923A |
| | SB-9 1-2 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107168 | 5 | 09/29/22 11:41 AM | ICP-MS5_220929B |
| 2209090-39A | SB-10 0-1 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| | SB-10 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107053 | 5 | 09/19/22 10:54 AM | ICP-MS5_220919A |
| 2209090-42A | SB-11 0-1 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| | SB-11 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107053 | 5 | 09/19/22 10:57 AM | ICP-MS5_220919A |
| 2209090-45A | SGP-1 0-1 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| | SGP-1 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107053 | 5 | 09/19/22 10:59 AM | ICP-MS5_220919A |
| 2209090-48A | SGP-2 0-1 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| | SGP-2 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107053 | 5 | 09/19/22 11:17 AM | ICP-MS5_220919A |
| 2209090-49A | SGP-2 1-2 | Soil | D2216 | Percent Moisture | 107123 | 1 | 09/26/22 09:15 AM | PMOIST_220923A |
| | SGP-2 1-2 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107168 | 5 | 09/29/22 11:33 AM | ICP-MS5_220929B |
| 2209090-51A | SGP-5 3-5 | Soil | SW8260D | Volatiles by 8260/5035 GC/MS | 107035 | 1 | 09/14/22 07:55 PM | GCMS2_220914A |
| 2209090-51B | SGP-5 3-5 | Soil | TX1005 | Tx1005 TPH Soil | 107049 | 1 | 09/16/22 11:43 AM | GC12_220916A |
| 2209090-51C | SGP-5 3-5 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| 2209090-52A | SGP-6 1-3 | Soil | SW8260D | Volatiles by 8260/5035 GC/MS | 107035 | 1 | 09/14/22 08:23 PM | GCMS2_220914A |
| 2209090-52B | SGP-6 1-3 | Soil | TX1005 | Tx1005 TPH Soil | 107049 | 1 | 09/16/22 11:52 AM | GC12_220916A |

Lab Order: 2209090
Client: Terracon
Project: Rosedale

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|------------|-------------|-------------------------------|----------|----------|-------------------|-----------------|
| 2209090-52C | SGP-6 1-3 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| 2209090-53A | TB-1 | Trip Blank | SW8260D | 8260 Water Volatiles by GC/MS | 107009 | 1 | 09/13/22 12:20 PM | GCMS5_220913A |
| 2209090-54A | TB-2 | Trip Blank | SW8260D | 8260 Water Volatiles by GC/MS | 107009 | 1 | 09/13/22 12:46 PM | GCMS5_220913A |
| 2209090-55A | Dup-SGP-1 0-1 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| | Dup-SGP-1 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107053 | 5 | 09/19/22 11:19 AM | ICP-MS5_220919A |
| 2209090-56A | Dup-SB-2 0-1 | Soil | D2216 | Percent Moisture | 107021 | 1 | 09/14/22 09:15 AM | PMOIST_220913B |
| | Dup-SB-2 0-1 | Soil | SW6020B | Trace Metals: ICP-MS - Solid | 107053 | 5 | 09/19/22 11:22 AM | ICP-MS5_220919A |

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | MW-1 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-01 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 12:54 PM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------------------------|-------|------|-----------|----|-----------------------------------|
| TRACE METALS: ICP-MS - SOLID Lead | 74.4 | SW6020B 0.121 | 0.364 | | mg/Kg-dry | 5 | Analyst: SP 09/15/22 02:55 PM |
| PERCENT MOISTURE Percent Moisture | 19.2 | D2216 0 | 0 | | WT% | 1 | Analyst: EAT 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Sep-22

CLIENT: Terracon **Client Sample ID:** MW-1 5-7
Project: Rosedale **Lab ID:** 2209090-04
Project No: 95207647 Task 3.6 **Collection Date:** 09/12/22 12:57 PM
Lab Order: 2209090 **Matrix:** SOIL

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|-----------|----------|---------|------|-----------|----|-------------------|
| TX1005 TPH SOIL | | | | | | | |
| T/R Hydrocarbons: C6-C12 | <6.86 | 6.86 | 19.6 | | mg/Kg-dry | 1 | 09/16/22 10:58 AM |
| T/R Hydrocarbons: >C12-C28 | <6.86 | 6.86 | 19.6 | | mg/Kg-dry | 1 | 09/16/22 10:58 AM |
| T/R Hydrocarbons: >C28-C35 | <6.86 | 6.86 | 19.6 | | mg/Kg-dry | 1 | 09/16/22 10:58 AM |
| T/R Hydrocarbons: C6-C35 | <6.86 | 6.86 | 19.6 | | mg/Kg-dry | 1 | 09/16/22 10:58 AM |
| Surr: Isopropylbenzene | 76.2 | 0 | 70-130 | %REC | | 1 | 09/16/22 10:58 AM |
| Surr: Octacosane | 97.1 | 0 | 70-130 | %REC | | 1 | 09/16/22 10:58 AM |
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| TX1005 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,1,1-Trichloroethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,1,2,2-Tetrachloroethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,1,2-Trichloroethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,1,2-Trichlorotrifluoroethane | <0.00445 | 0.00445 | 0.0134 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,1-Dichloroethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,1-Dichloroethene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,1-Dichloropropene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,2,3-Trichlorobenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,2,3-Trichloroproppane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,2,4-Trichlorobenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,2,4-Trimethylbenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,2-Dibromo-3-chloropropane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,2-Dibromoethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,2-Dichlorobenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,2-Dichloroethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,2-Dichloropropene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,3,5-Trimethylbenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,3-Dichlorobenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,3-Dichloropropane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1,4-Dichlorobenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 1-Chlorohexane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 2,2-Dichloropropane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 2-Butanone | <0.00445 | 0.00445 | 0.0134 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 2-Chlorotoluene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 2-Hexanone | <0.00445 | 0.00445 | 0.0134 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 4-Chlorotoluene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| 4-Methyl-2-pentanone | <0.00445 | 0.00445 | 0.0134 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Acetone | <0.0134 | 0.0134 | 0.0445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Benzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Bromobenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| SW8260D | | | | | | | |
| Analyst: BTJ | | | | | | | |

Qualifiers: ND - Not Detected at the SDL

J - Analyte detected between SDL and RL

B - Analyte detected in the associated Method Blank

DF- Dilution Factor

N - Parameter not NELAP certified

See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

RL - Reporting Limit (MQL adjusted for moisture and sample size)

SDL - Sample Detection Limit

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Sep-22

CLIENT: Terracon

Client Sample ID: MW-1 5-7

Project: Rosedale

Lab ID: 2209090-04

Project No: 95207647 Task 3.6

Collection Date: 09/12/22 12:57 PM

Lab Order: 2209090

Matrix: SOIL

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|-----------|----------------|---------|------|-----------|----|-------------------|
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| | | SW8260D | | | | | Analyst: JL |
| Bromochloromethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Bromodichloromethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Bromoform | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Bromomethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Carbon disulfide | <0.00445 | 0.00445 | 0.0134 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Carbon tetrachloride | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Chlorobenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Chloroethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Chloroform | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Chloromethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| cis-1,2-Dichloroethene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| cis-1,3-Dichloropropene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Cyclohexane | <0.00445 | 0.00445 | 0.0134 | N | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Dibromochloromethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Dibromomethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Dichlorodifluoromethane | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Ethylbenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Hexachlorobutadiene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Isopropylbenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| m,p-Xylene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Methyl Acetate | <0.00445 | 0.00445 | 0.0134 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Methyl tert-butyl ether | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Methylcyclohexane | <0.00445 | 0.00445 | 0.0134 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Methylene chloride | <0.00445 | 0.00445 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Naphthalene | <0.00445 | 0.00445 | 0.0134 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| n-Butylbenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| n-Propylbenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| o-Xylene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| p-Isopropyltoluene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| sec-Butylbenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Styrene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| tert-Butylbenzene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Tetrachloroethene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Toluene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| trans-1,2-Dichloroethene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| trans-1,3-Dichloropropene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Trichloroethene | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Trichlorofluoromethane | <0.00445 | 0.00445 | 0.0134 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Vinyl chloride | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |

Qualifiers: ND - Not Detected at the SDL

S - Spike Recovery outside control limits

J - Analyte detected between SDL and RL

C - Sample Result or QC discussed in Case Narrative

B - Analyte detected in the associated Method Blank

RL - Reporting Limit (MQL adjusted for moisture and sample size)

DF - Dilution Factor

SDL - Sample Detection Limit

N - Parameter not NELAP certified

E - TPH pattern not Gas or Diesel Range Pattern

See Final Page of Report for MQLs and MDLs

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | MW-1 5-7 |
| Project: | Rosedale | Lab ID: | 2209090-04 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 12:57 PM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|-----------|----------|---------|------|-----------|----|-------------------|
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| Xylenes, Total | <0.000890 | 0.000890 | 0.00445 | | mg/Kg-dry | 1 | 09/14/22 06:31 PM |
| Surr: 1,2-Dichloroethane-d4 | 100 | 0 | 52-149 | %REC | | 1 | 09/14/22 06:31 PM |
| Surr: 4-Bromofluorobenzene | 98.0 | 0 | 84-118 | %REC | | 1 | 09/14/22 06:31 PM |
| Surr: Dibromofluoromethane | 103 | 0 | 65-135 | %REC | | 1 | 09/14/22 06:31 PM |
| Surr: Toluene-d8 | 92.7 | 0 | 84-116 | %REC | | 1 | 09/14/22 06:31 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 16.7 | 0 | 0 | WT% | | 1 | 09/14/22 09:15 AM |

Qualifiers:
 ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Sep-22

CLIENT: Terracon **Client Sample ID:** MW-1 17-19
Project: Rosedale **Lab ID:** 2209090-05
Project No: 95207647 Task 3.6 **Collection Date:** 09/12/22 01:06 PM
Lab Order: 2209090 **Matrix:** SOIL

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TX1005 TPH SOIL | | | | | | | |
| T/R Hydrocarbons: C6-C12 | <7.82 | 7.82 | 22.3 | | mg/Kg-dry | 1 | 09/23/22 12:18 PM |
| T/R Hydrocarbons: >C12-C28 | <7.82 | 7.82 | 22.3 | | mg/Kg-dry | 1 | 09/23/22 12:18 PM |
| T/R Hydrocarbons: >C28-C35 | <7.82 | 7.82 | 22.3 | | mg/Kg-dry | 1 | 09/23/22 12:18 PM |
| T/R Hydrocarbons: C6-C35 | <7.82 | 7.82 | 22.3 | | mg/Kg-dry | 1 | 09/23/22 12:18 PM |
| Surr: Isopropylbenzene | 78.1 | 0 | 70-130 | %REC | | 1 | 09/23/22 12:18 PM |
| Surr: Octacosane | 99.4 | 0 | 70-130 | %REC | | 1 | 09/23/22 12:18 PM |
| 8260 VOLATILES BY GC/MS | | | | | | | |
| TX1005 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,1,1-Trichloroethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,1,2,2-Tetrachloroethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,1,2-Trichloroethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,1,2-Trichlorotrifluoroethane | <0.00550 | 0.00550 | 0.0165 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,1-Dichloroethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,1-Dichloroethene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,1-Dichloropropene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,2,3-Trichlorobenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,2,3-Trichloroproppane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,2,4-Trichlorobenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,2,4-Trimethylbenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,2-Dibromo-3-chloropropane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,2-Dibromoethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,2-Dichlorobenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,2-Dichloroethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,2-Dichloropropane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,3,5-Trimethylbenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,3-Dichlorobenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,3-Dichloropropane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1,4-Dichlorobenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 1-Chlorohexane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 2,2-Dichloropropane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 2-Butanone | <0.00550 | 0.00550 | 0.0165 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 2-Chlorotoluene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 2-Hexanone | <0.00550 | 0.00550 | 0.0165 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 4-Chlorotoluene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| 4-Methyl-2-pentanone | <0.00550 | 0.00550 | 0.0165 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Acetone | <0.0165 | 0.0165 | 0.0550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Benzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Bromobenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| SW8260D | | | | | | | |
| Analyst: BTJ | | | | | | | |

Qualifiers: ND - Not Detected at the SDL

S - Spike Recovery outside control limits

J - Analyte detected between SDL and RL

C - Sample Result or QC discussed in Case Narrative

B - Analyte detected in the associated Method Blank

RL - Reporting Limit (MQL adjusted for moisture and sample size)

DF- Dilution Factor

SDL - Sample Detection Limit

N - Parameter not NELAP certified

E - TPH pattern not Gas or Diesel Range Pattern

See Final Page of Report for MQLs and MDLs

DHL Analytical, Inc.

Date: 30-Sep-22

CLIENT: Terracon

Client Sample ID: MW-1 17-19

Project: Rosedale

Lab ID: 2209090-05

Project No: 95207647 Task 3.6

Collection Date: 09/12/22 01:06 PM

Lab Order: 2209090

Matrix: SOIL

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------|----------|----------------|---------|------|-----------|----|-------------------|
| 8260 VOLATILES BY GC/MS | | | | | | | |
| | | SW8260D | | | | | Analyst: JL |
| Bromochloromethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Bromodichloromethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Bromoform | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Bromomethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Carbon disulfide | <0.00550 | 0.00550 | 0.0165 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Carbon tetrachloride | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Chlorobenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Chloroethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Chloroform | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Chloromethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| cis-1,2-Dichloroethene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| cis-1,3-Dichloropropene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Cyclohexane | <0.00550 | 0.00550 | 0.0165 | N | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Dibromochloromethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Dibromomethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Dichlorodifluoromethane | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Ethylbenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Hexachlorobutadiene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Isopropylbenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| m,p-Xylene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Methyl Acetate | <0.00550 | 0.00550 | 0.0165 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Methyl tert-butyl ether | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Methylcyclohexane | <0.00550 | 0.00550 | 0.0165 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Methylene chloride | <0.00550 | 0.00550 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Naphthalene | <0.00550 | 0.00550 | 0.0165 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| n-Butylbenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| n-Propylbenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| o-Xylene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| p-Isopropyltoluene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| sec-Butylbenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Styrene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| tert-Butylbenzene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Tetrachloroethene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Toluene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| trans-1,2-Dichloroethene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| trans-1,3-Dichloropropene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Trichloroethene | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Trichlorofluoromethane | <0.00550 | 0.00550 | 0.0165 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Vinyl chloride | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |

Qualifiers: ND - Not Detected at the SDL

S - Spike Recovery outside control limits

J - Analyte detected between SDL and RL

C - Sample Result or QC discussed in Case Narrative

B - Analyte detected in the associated Method Blank

RL - Reporting Limit (MQL adjusted for moisture and sample size)

DF - Dilution Factor

SDL - Sample Detection Limit

N - Parameter not NELAP certified

E - TPH pattern not Gas or Diesel Range Pattern

See Final Page of Report for MQLs and MDLs

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | MW-1 17-19 |
| Project: | Rosedale | Lab ID: | 2209090-05 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 01:06 PM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| 8260 VOLATILES BY GC/MS | | | | | | | |
| Total Xylenes | <0.00110 | 0.00110 | 0.00550 | | mg/Kg-dry | 1 | 09/22/22 02:22 PM |
| Surr: 1,2-Dichloroethane-d4 | 103 | 0 | 52-149 | %REC | | 1 | 09/22/22 02:22 PM |
| Surr: 4-Bromofluorobenzene | 104 | 0 | 84-118 | %REC | | 1 | 09/22/22 02:22 PM |
| Surr: Dibromofluoromethane | 103 | 0 | 65-135 | %REC | | 1 | 09/22/22 02:22 PM |
| Surr: Toluene-d8 | 103 | 0 | 84-116 | %REC | | 1 | 09/22/22 02:22 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 16.2 | 0 | 0 | WT% | | 1 | 09/26/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Sep-22

CLIENT: Terracon **Client Sample ID:** Dup-MW-1 5-7
Project: Rosedale **Lab ID:** 2209090-06
Project No: 95207647 Task 3.6 **Collection Date:** 09/12/22 12:57 PM
Lab Order: 2209090 **Matrix:** SOIL

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|-----------|----------|---------|------|-----------|----|-------------------|
| TX1005 TPH SOIL | | | | | | | |
| T/R Hydrocarbons: C6-C12 | <7.52 | 7.52 | 21.5 | | mg/Kg-dry | 1 | 09/16/22 11:07 AM |
| T/R Hydrocarbons: >C12-C28 | <7.52 | 7.52 | 21.5 | | mg/Kg-dry | 1 | 09/16/22 11:07 AM |
| T/R Hydrocarbons: >C28-C35 | <7.52 | 7.52 | 21.5 | | mg/Kg-dry | 1 | 09/16/22 11:07 AM |
| T/R Hydrocarbons: C6-C35 | <7.52 | 7.52 | 21.5 | | mg/Kg-dry | 1 | 09/16/22 11:07 AM |
| Surr: Isopropylbenzene | 75.5 | 0 | 70-130 | %REC | | 1 | 09/16/22 11:07 AM |
| Surr: Octacosane | 96.6 | 0 | 70-130 | %REC | | 1 | 09/16/22 11:07 AM |
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| TX1005 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,1,1-Trichloroethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,1,2,2-Tetrachloroethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,1,2-Trichloroethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,1,2-Trichlorotrifluoroethane | <0.00476 | 0.00476 | 0.0143 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,1-Dichloroethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,1-Dichloroethene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,1-Dichloropropene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,2,3-Trichlorobenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,2,3-Trichloroproppane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,2,4-Trichlorobenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,2,4-Trimethylbenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,2-Dibromo-3-chloropropane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,2-Dibromoethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,2-Dichlorobenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,2-Dichloroethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,2-Dichloropropene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,3,5-Trimethylbenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,3-Dichlorobenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,3-Dichloropropane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1,4-Dichlorobenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 1-Chlorohexane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 2,2-Dichloropropane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 2-Butanone | <0.00476 | 0.00476 | 0.0143 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 2-Chlorotoluene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 2-Hexanone | <0.00476 | 0.00476 | 0.0143 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 4-Chlorotoluene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| 4-Methyl-2-pentanone | <0.00476 | 0.00476 | 0.0143 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Acetone | <0.0143 | 0.0143 | 0.0476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Benzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Bromobenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| SW8260D | | | | | | | |
| Analyst: BTJ | | | | | | | |

Qualifiers: ND - Not Detected at the SDL

S - Spike Recovery outside control limits

J - Analyte detected between SDL and RL

C - Sample Result or QC discussed in Case Narrative

B - Analyte detected in the associated Method Blank

RL - Reporting Limit (MQL adjusted for moisture and sample size)

DF- Dilution Factor

SDL - Sample Detection Limit

N - Parameter not NELAP certified

E - TPH pattern not Gas or Diesel Range Pattern

See Final Page of Report for MQLs and MDLs

DHL Analytical, Inc.

Date: 30-Sep-22

CLIENT: Terracon

Client Sample ID: Dup-MW-1 5-7

Project: Rosedale

Lab ID: 2209090-06

Project No: 95207647 Task 3.6

Collection Date: 09/12/22 12:57 PM

Lab Order: 2209090

Matrix: SOIL

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|-----------|----------|---------|------|-----------|----|-------------------|
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| Bromochloromethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Bromodichloromethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Bromoform | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Bromomethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Carbon disulfide | <0.00476 | 0.00476 | 0.0143 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Carbon tetrachloride | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Chlorobenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Chloroethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Chloroform | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Chloromethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| cis-1,2-Dichloroethene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| cis-1,3-Dichloropropene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Cyclohexane | <0.00476 | 0.00476 | 0.0143 | N | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Dibromochloromethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Dibromomethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Dichlorodifluoromethane | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Ethylbenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Hexachlorobutadiene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Isopropylbenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| m,p-Xylene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Methyl Acetate | <0.00476 | 0.00476 | 0.0143 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Methyl tert-butyl ether | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Methylcyclohexane | <0.00476 | 0.00476 | 0.0143 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Methylene chloride | 0.00587 | 0.00476 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Naphthalene | <0.00476 | 0.00476 | 0.0143 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| n-Butylbenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| n-Propylbenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| o-Xylene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| p-Isopropyltoluene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| sec-Butylbenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Styrene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| tert-Butylbenzene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Tetrachloroethene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Toluene | 0.000952 | 0.000952 | 0.00476 | J | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| trans-1,2-Dichloroethene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| trans-1,3-Dichloropropene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Trichloroethene | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Trichlorofluoromethane | <0.00476 | 0.00476 | 0.0143 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Vinyl chloride | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |

Qualifiers: ND - Not Detected at the SDL

S - Spike Recovery outside control limits

J - Analyte detected between SDL and RL

C - Sample Result or QC discussed in Case Narrative

B - Analyte detected in the associated Method Blank

RL - Reporting Limit (MQL adjusted for moisture and sample size)

DF - Dilution Factor

SDL - Sample Detection Limit

N - Parameter not NELAP certified

E - TPH pattern not Gas or Diesel Range Pattern

See Final Page of Report for MQLs and MDLs

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | Dup-MW-1 5-7 |
| Project: | Rosedale | Lab ID: | 2209090-06 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 12:57 PM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|-----------|----------|---------|------|-----------|----|-------------------|
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| Xylenes, Total | <0.000952 | 0.000952 | 0.00476 | | mg/Kg-dry | 1 | 09/14/22 06:59 PM |
| Surr: 1,2-Dichloroethane-d4 | 96.0 | 0 | 52-149 | %REC | | 1 | 09/14/22 06:59 PM |
| Surr: 4-Bromofluorobenzene | 101 | 0 | 84-118 | %REC | | 1 | 09/14/22 06:59 PM |
| Surr: Dibromofluoromethane | 102 | 0 | 65-135 | %REC | | 1 | 09/14/22 06:59 PM |
| Surr: Toluene-d8 | 91.0 | 0 | 84-116 | %REC | | 1 | 09/14/22 06:59 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 15.9 | 0 | 0 | WT% | | 1 | 09/14/22 09:15 AM |

Qualifiers:
 ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | MW-2 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-07 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 01:33 PM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|----------------|-------|------|-----------|----|---------------------|
| TRACE METALS: ICP-MS - SOLID | | SW6020B | | | | | Analyst: SP |
| Lead | 296 | 0.0995 | 0.298 | | mg/Kg-dry | 5 | 09/15/22 02:57 PM |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: EAT |
| Percent Moisture | 14.8 | 0 | 0 | | WT% | 1 | 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Sep-22

CLIENT: Terracon **Client Sample ID:** MW-2 5-7
Project: Rosedale **Lab ID:** 2209090-10
Project No: 95207647 Task 3.6 **Collection Date:** 09/12/22 01:33 PM
Lab Order: 2209090 **Matrix:** SOIL

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TX1005 TPH SOIL | | | | | | | |
| T/R Hydrocarbons: C6-C12 | <9.44 | 9.44 | 27.0 | | mg/Kg-dry | 1 | 09/16/22 11:16 AM |
| T/R Hydrocarbons: >C12-C28 | <9.44 | 9.44 | 27.0 | | mg/Kg-dry | 1 | 09/16/22 11:16 AM |
| T/R Hydrocarbons: >C28-C35 | <9.44 | 9.44 | 27.0 | | mg/Kg-dry | 1 | 09/16/22 11:16 AM |
| T/R Hydrocarbons: C6-C35 | <9.44 | 9.44 | 27.0 | | mg/Kg-dry | 1 | 09/16/22 11:16 AM |
| Surr: Isopropylbenzene | 76.3 | 0 | 70-130 | %REC | | 1 | 09/16/22 11:16 AM |
| Surr: Octacosane | 97.9 | 0 | 70-130 | %REC | | 1 | 09/16/22 11:16 AM |
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| TX1005 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,1,1-Trichloroethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,1,2,2-Tetrachloroethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,1,2-Trichloroethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,1,2-Trichlorotrifluoroethane | <0.00556 | 0.00556 | 0.0167 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,1-Dichloroethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,1-Dichloroethene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,1-Dichloropropene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,2,3-Trichlorobenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,2,3-Trichloropropane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,2,4-Trichlorobenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,2,4-Trimethylbenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,2-Dibromo-3-chloropropane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,2-Dibromoethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,2-Dichlorobenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,2-Dichloroethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,2-Dichloropropane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,3,5-Trimethylbenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,3-Dichlorobenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,3-Dichloropropane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1,4-Dichlorobenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 1-Chlorohexane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 2,2-Dichloropropane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 2-Butanone | <0.00556 | 0.00556 | 0.0167 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 2-Chlorotoluene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 2-Hexanone | <0.00556 | 0.00556 | 0.0167 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 4-Chlorotoluene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| 4-Methyl-2-pentanone | <0.00556 | 0.00556 | 0.0167 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Acetone | <0.0167 | 0.0167 | 0.0556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Benzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Bromobenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| SW8260D | | | | | | | |
| Analyst: BTJ | | | | | | | |

Qualifiers: ND - Not Detected at the SDL

J - Analyte detected between SDL and RL

B - Analyte detected in the associated Method Blank

DF- Dilution Factor

N - Parameter not NELAP certified

See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

RL - Reporting Limit (MQL adjusted for moisture and sample size)

SDL - Sample Detection Limit

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | MW-2 5-7 |
| Project: | Rosedale | Lab ID: | 2209090-10 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 01:33 PM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|----------------|-----------|----|-------------------|
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| | | | | SW8260D | | | Analyst: JL |
| Bromochloromethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Bromodichloromethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Bromoform | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Bromomethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Carbon disulfide | <0.00556 | 0.00556 | 0.0167 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Carbon tetrachloride | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Chlorobenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Chloroethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Chloroform | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Chloromethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| cis-1,2-Dichloroethene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| cis-1,3-Dichloropropene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Cyclohexane | <0.00556 | 0.00556 | 0.0167 | N | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Dibromochloromethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Dibromomethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Dichlorodifluoromethane | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Ethylbenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Hexachlorobutadiene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Isopropylbenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| m,p-Xylene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Methyl Acetate | <0.00556 | 0.00556 | 0.0167 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Methyl tert-butyl ether | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Methylcyclohexane | <0.00556 | 0.00556 | 0.0167 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Methylene chloride | 0.00699 | 0.00556 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Naphthalene | <0.00556 | 0.00556 | 0.0167 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| n-Butylbenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| n-Propylbenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| o-Xylene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| p-Isopropyltoluene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| sec-Butylbenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Styrene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| tert-Butylbenzene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Tetrachloroethene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Toluene | 0.00112 | 0.00111 | 0.00556 | J | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| trans-1,2-Dichloroethene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| trans-1,3-Dichloropropene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Trichloroethene | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Trichlorofluoromethane | <0.00556 | 0.00556 | 0.0167 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Vinyl chloride | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |

Qualifiers: ND - Not Detected at the SDL

S - Spike Recovery outside control limits

J - Analyte detected between SDL and RL

C - Sample Result or QC discussed in Case Narrative

B - Analyte detected in the associated Method Blank

RL - Reporting Limit (MQL adjusted for moisture and sample size)

DF - Dilution Factor

SDL - Sample Detection Limit

N - Parameter not NELAP certified

E - TPH pattern not Gas or Diesel Range Pattern

See Final Page of Report for MQLs and MDLs

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | MW-2 5-7 |
| Project: | Rosedale | Lab ID: | 2209090-10 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 01:33 PM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| Xylenes, Total | <0.00111 | 0.00111 | 0.00556 | | mg/Kg-dry | 1 | 09/14/22 07:27 PM |
| Surr: 1,2-Dichloroethane-d4 | 98.3 | 0 | 52-149 | %REC | | 1 | 09/14/22 07:27 PM |
| Surr: 4-Bromofluorobenzene | 94.4 | 0 | 84-118 | %REC | | 1 | 09/14/22 07:27 PM |
| Surr: Dibromofluoromethane | 102 | 0 | 65-135 | %REC | | 1 | 09/14/22 07:27 PM |
| Surr: Toluene-d8 | 95.5 | 0 | 84-116 | %REC | | 1 | 09/14/22 07:27 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 18.1 | 0 | 0 | WT% | | 1 | 09/14/22 09:15 AM |

Qualifiers:
 ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | MW-2 15-16 |
| Project: | Rosedale | Lab ID: | 2209090-11 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 01:45 PM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TX1005 TPH SOIL | | | | | | | |
| T/R Hydrocarbons: C6-C12 | <7.75 | 7.75 | 22.1 | | mg/Kg-dry | 1 | 09/23/22 12:27 PM |
| T/R Hydrocarbons: >C12-C28 | <7.75 | 7.75 | 22.1 | | mg/Kg-dry | 1 | 09/23/22 12:27 PM |
| T/R Hydrocarbons: >C28-C35 | <7.75 | 7.75 | 22.1 | | mg/Kg-dry | 1 | 09/23/22 12:27 PM |
| T/R Hydrocarbons: C6-C35 | <7.75 | 7.75 | 22.1 | | mg/Kg-dry | 1 | 09/23/22 12:27 PM |
| Surr: Isopropylbenzene | 76.8 | 0 | 70-130 | %REC | | 1 | 09/23/22 12:27 PM |
| Surr: Octacosane | 95.3 | 0 | 70-130 | %REC | | 1 | 09/23/22 12:27 PM |
| 8260 VOLATILES BY GC/MS | | | | | | | |
| TX1005 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,1,1-Trichloroethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,1,2,2-Tetrachloroethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,1,2-Trichloroethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,1,2-Trichlorotrifluoroethane | <0.00539 | 0.00539 | 0.0162 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,1-Dichloroethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,1-Dichloroethene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,1-Dichloropropene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,2,3-Trichlorobenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,2,3-Trichloropropane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,2,4-Trichlorobenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,2,4-Trimethylbenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,2-Dibromo-3-chloropropane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,2-Dibromoethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,2-Dichlorobenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,2-Dichloroethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,2-Dichloropropane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,3,5-Trimethylbenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,3-Dichlorobenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,3-Dichloropropane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1,4-Dichlorobenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 1-Chlorohexane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 2,2-Dichloropropane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 2-Butanone | <0.00539 | 0.00539 | 0.0162 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 2-Chlorotoluene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 2-Hexanone | <0.00539 | 0.00539 | 0.0162 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 4-Chlorotoluene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| 4-Methyl-2-pentanone | <0.00539 | 0.00539 | 0.0162 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Acetone | <0.0162 | 0.0162 | 0.0539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Benzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Bromobenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| SW8260D | | | | | | | |
| Analyst: BTJ | | | | | | | |

Qualifiers: ND - Not Detected at the SDL

S - Spike Recovery outside control limits

J - Analyte detected between SDL and RL

C - Sample Result or QC discussed in Case Narrative

B - Analyte detected in the associated Method Blank

RL - Reporting Limit (MQL adjusted for moisture and sample size)

DF- Dilution Factor

SDL - Sample Detection Limit

N - Parameter not NELAP certified

E - TPH pattern not Gas or Diesel Range Pattern

See Final Page of Report for MQLs and MDLs

DHL Analytical, Inc.

Date: 30-Sep-22

CLIENT: Terracon **Client Sample ID:** MW-2 15-16
Project: Rosedale **Lab ID:** 2209090-11
Project No: 95207647 Task 3.6 **Collection Date:** 09/12/22 01:45 PM
Lab Order: 2209090 **Matrix:** SOIL

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------|----------|----------------|---------|------|-----------|----|-------------------|
| 8260 VOLATILES BY GC/MS | | | | | | | |
| | | SW8260D | | | | | Analyst: JL |
| Bromochloromethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Bromodichloromethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Bromoform | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Bromomethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Carbon disulfide | <0.00539 | 0.00539 | 0.0162 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Carbon tetrachloride | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Chlorobenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Chloroethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Chloroform | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Chloromethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| cis-1,2-Dichloroethene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| cis-1,3-Dichloropropene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Cyclohexane | <0.00539 | 0.00539 | 0.0162 | N | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Dibromochloromethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Dibromomethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Dichlorodifluoromethane | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Ethylbenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Hexachlorobutadiene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Isopropylbenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| m,p-Xylene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Methyl Acetate | <0.00539 | 0.00539 | 0.0162 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Methyl tert-butyl ether | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Methylcyclohexane | <0.00539 | 0.00539 | 0.0162 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Methylene chloride | <0.00539 | 0.00539 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Naphthalene | <0.00539 | 0.00539 | 0.0162 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| n-Butylbenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| n-Propylbenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| o-Xylene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| p-Isopropyltoluene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| sec-Butylbenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Styrene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| tert-Butylbenzene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Tetrachloroethene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Toluene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| trans-1,2-Dichloroethene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| trans-1,3-Dichloropropene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Trichloroethene | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Trichlorofluoromethane | <0.00539 | 0.00539 | 0.0162 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Vinyl chloride | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |

Qualifiers: ND - Not Detected at the SDL

S - Spike Recovery outside control limits

J - Analyte detected between SDL and RL

C - Sample Result or QC discussed in Case Narrative

B - Analyte detected in the associated Method Blank

RL - Reporting Limit (MQL adjusted for moisture and sample size)

DF - Dilution Factor

SDL - Sample Detection Limit

N - Parameter not NELAP certified

E - TPH pattern not Gas or Diesel Range Pattern

See Final Page of Report for MQLs and MDLs

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | MW-2 15-16 |
| Project: | Rosedale | Lab ID: | 2209090-11 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 01:45 PM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| 8260 VOLATILES BY GC/MS | | | | | | | |
| Total Xylenes | <0.00108 | 0.00108 | 0.00539 | | mg/Kg-dry | 1 | 09/22/22 02:50 PM |
| Surr: 1,2-Dichloroethane-d4 | 104 | 0 | 52-149 | %REC | | 1 | 09/22/22 02:50 PM |
| Surr: 4-Bromofluorobenzene | 102 | 0 | 84-118 | %REC | | 1 | 09/22/22 02:50 PM |
| Surr: Dibromofluoromethane | 104 | 0 | 65-135 | %REC | | 1 | 09/22/22 02:50 PM |
| Surr: Toluene-d8 | 102 | 0 | 84-116 | %REC | | 1 | 09/22/22 02:50 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 14.3 | 0 | 0 | WT% | | 1 | 09/26/22 09:15 AM |

Qualifiers:
 ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SB-1 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-12 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 11:30 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------------------------|-------|------|-----------|----|-----------------------------------|
| TRACE METALS: ICP-MS - SOLID Lead | 44.3 | SW6020B 0.112 | 0.336 | | mg/Kg-dry | 5 | Analyst: SP 09/15/22 03:00 PM |
| PERCENT MOISTURE Percent Moisture | 19.6 | D2216 0 | 0 | | WT% | 1 | Analyst: EAT 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SB-2 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-15 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 11:11 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------------------------|-------|------|-----------|----|-----------------------------------|
| TRACE METALS: ICP-MS - SOLID Lead | 46.2 | SW6020B 0.105 | 0.315 | | mg/Kg-dry | 5 | Analyst: SP 09/15/22 03:02 PM |
| PERCENT MOISTURE Percent Moisture | 17.1 | D2216 0 | 0 | | WT% | 1 | Analyst: EAT 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SB-3 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-18 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 10:56 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|----------------|-------|------|-----------|----|---------------------|
| TRACE METALS: ICP-MS - SOLID | | SW6020B | | | | | Analyst: SP |
| Lead | 13.8 | 0.101 | 0.303 | | mg/Kg-dry | 5 | 09/15/22 03:05 PM |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: EAT |
| Percent Moisture | 17.5 | 0 | 0 | | WT% | 1 | 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SB-4 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-21 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 09:21 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------------|-------|-------|-----------|----|-----------------------------------|
| TRACE METALS: ICP-MS - SOLID Lead | 13.6 | SW6020B | 0.115 | 0.345 | mg/Kg-dry | 5 | Analyst: SP 09/15/22 03:08 PM |
| PERCENT MOISTURE Percent Moisture | 15.5 | D2216 | 0 | 0 | WT% | 1 | Analyst: EAT 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SB-5 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-24 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 09:14 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------------------------|-------|------|-----------|----|-----------------------------------|
| TRACE METALS: ICP-MS - SOLID Lead | 440 | SW6020B 0.113 | 0.338 | | mg/Kg-dry | 5 | Analyst: SP 09/15/22 03:10 PM |
| PERCENT MOISTURE Percent Moisture | 16.2 | D2216 0 | 0 | | WT% | 1 | Analyst: EAT 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SB-5 1-2 |
| Project: | Rosedale | Lab ID: | 2209090-25 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 09:14 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------------------------|-------|------|-----------|----|-----------------------------------|
| TRACE METALS: ICP-MS - SOLID Lead | 19.4 | SW6020B 0.122 | 0.366 | | mg/Kg-dry | 5 | Analyst: SP 09/29/22 11:38 AM |
| PERCENT MOISTURE Percent Moisture | 20.4 | D2216 0 | 0 | | WT% | 1 | Analyst: EAT 09/26/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SB-6 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-27 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 09:28 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|----------------|-------|------|-----------|----|---------------------|
| TRACE METALS: ICP-MS - SOLID | | SW6020B | | | | | Analyst: SP |
| Lead | 290 | 0.0982 | 0.295 | | mg/Kg-dry | 5 | 09/15/22 03:13 PM |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: EAT |
| Percent Moisture | 8.30 | 0 | 0 | | WT% | 1 | 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SB-7 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-30 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 09:54 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|----------------|-------|------|-----------|----|---------------------|
| TRACE METALS: ICP-MS - SOLID | | SW6020B | | | | | Analyst: SP |
| Lead | 6.94 | 0.0962 | 0.288 | | mg/Kg-dry | 5 | 09/15/22 03:15 PM |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: EAT |
| Percent Moisture | 2.81 | 0 | 0 | | WT% | 1 | 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SB-8 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-33 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 09:46 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------------------------|-------|------|-----------|----|-----------------------------------|
| TRACE METALS: ICP-MS - SOLID Lead | 18.1 | SW6020B 0.106 | 0.318 | | mg/Kg-dry | 5 | Analyst: SP 09/15/22 02:12 PM |
| PERCENT MOISTURE Percent Moisture | 9.25 | D2216 0 | 0 | | WT% | 1 | Analyst: EAT 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SB-9 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-36 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 09:40 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|----------------|-------|-------|-----------|----|-----------------------------------|
| TRACE METALS: ICP-MS - SOLID Lead | 414 | SW6020B | 0.103 | 0.310 | mg/Kg-dry | 5 | Analyst: SP 09/19/22 10:51 AM |
| PERCENT MOISTURE Percent Moisture | 12.9 | D2216 | 0 | 0 | WT% | 1 | Analyst: EAT 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SB-9 1-2 |
| Project: | Rosedale | Lab ID: | 2209090-37 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 09:40 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------------------------|-------|------|-----------|----|-----------------------------------|
| TRACE METALS: ICP-MS - SOLID Lead | 20.3 | SW6020B 0.105 | 0.316 | | mg/Kg-dry | 5 | Analyst: SP 09/29/22 11:41 AM |
| PERCENT MOISTURE Percent Moisture | 15.3 | D2216 0 | 0 | | WT% | 1 | Analyst: EAT 09/26/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SB-10 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-39 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 10:34 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|----------------|-------|------|-----------|----|-------------------|
| TRACE METALS: ICP-MS - SOLID | | SW6020B | | | | | Analyst: SP |
| Lead | 41.8 | 0.120 | 0.360 | | mg/Kg-dry | 5 | 09/19/22 10:54 AM |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: EAT |
| Percent Moisture | 19.8 | 0 | 0 | | WT% | 1 | 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SB-11 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-42 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 10:26 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|----------------|-------|------|-----------|----|---------------------|
| TRACE METALS: ICP-MS - SOLID | | SW6020B | | | | | Analyst: SP |
| Lead | 97.9 | 0.118 | 0.355 | | mg/Kg-dry | 5 | 09/19/22 10:57 AM |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: EAT |
| Percent Moisture | 20.2 | 0 | 0 | | WT% | 1 | 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SGP-1 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-45 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 11:23 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|----------------|-------|------|-----------|----|-------------------|
| TRACE METALS: ICP-MS - SOLID | | SW6020B | | | | | Analyst: SP |
| Lead | 207 | 0.117 | 0.352 | | mg/Kg-dry | 5 | 09/19/22 10:59 AM |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: EAT |
| Percent Moisture | 21.9 | 0 | 0 | | WT% | 1 | 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SGP-2 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-48 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 11:03 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|----------------|-------|------|-----------|----|---------------------|
| TRACE METALS: ICP-MS - SOLID | | SW6020B | | | | | Analyst: SP |
| Lead | 369 | 0.107 | 0.321 | | mg/Kg-dry | 5 | 09/19/22 11:17 AM |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: EAT |
| Percent Moisture | 13.5 | 0 | 0 | | WT% | 1 | 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SGP-2 1-2 |
| Project: | Rosedale | Lab ID: | 2209090-49 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 11:03 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|----------------|-------|------|-----------|----|---------------------|
| TRACE METALS: ICP-MS - SOLID | | SW6020B | | | | | Analyst: SP |
| Lead | 102 | 0.0953 | 0.286 | | mg/Kg-dry | 5 | 09/29/22 11:33 AM |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: EAT |
| Percent Moisture | 10.4 | 0 | 0 | | WT% | 1 | 09/26/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SGP-5 3-5 |
| Project: | Rosedale | Lab ID: | 2209090-51 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 08:47 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TX1005 TPH SOIL | | | | | | | |
| T/R Hydrocarbons: C6-C12 | <10.3 | 10.3 | 29.4 | | mg/Kg-dry | 1 | 09/16/22 11:43 AM |
| T/R Hydrocarbons: >C12-C28 | <10.3 | 10.3 | 29.4 | | mg/Kg-dry | 1 | 09/16/22 11:43 AM |
| T/R Hydrocarbons: >C28-C35 | <10.3 | 10.3 | 29.4 | | mg/Kg-dry | 1 | 09/16/22 11:43 AM |
| T/R Hydrocarbons: C6-C35 | <10.3 | 10.3 | 29.4 | | mg/Kg-dry | 1 | 09/16/22 11:43 AM |
| Surr: Isopropylbenzene | 76.6 | 0 | 70-130 | %REC | | 1 | 09/16/22 11:43 AM |
| Surr: Octacosane | 99.3 | 0 | 70-130 | %REC | | 1 | 09/16/22 11:43 AM |
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| TX1005 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,1,1-Trichloroethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,1,2,2-Tetrachloroethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,1,2-Trichloroethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,1,2-Trichlorotrifluoroethane | <0.00544 | 0.00544 | 0.0163 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,1-Dichloroethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,1-Dichloroethene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,1-Dichloropropene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,2,3-Trichlorobenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,2,3-Trichloropropane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,2,4-Trichlorobenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,2,4-Trimethylbenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,2-Dibromo-3-chloropropane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,2-Dibromoethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,2-Dichlorobenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,2-Dichloroethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,2-Dichloropropane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,3,5-Trimethylbenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,3-Dichlorobenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,3-Dichloropropane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1,4-Dichlorobenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 1-Chlorohexane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 2,2-Dichloropropane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 2-Butanone | <0.00544 | 0.00544 | 0.0163 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 2-Chlorotoluene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 2-Hexanone | <0.00544 | 0.00544 | 0.0163 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 4-Chlorotoluene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| 4-Methyl-2-pentanone | <0.00544 | 0.00544 | 0.0163 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Acetone | <0.0163 | 0.0163 | 0.0544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Benzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Bromobenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| SW8260D | | | | | | | |
| Analyst: BTJ | | | | | | | |

Qualifiers: ND - Not Detected at the SDL

J - Analyte detected between SDL and RL

B - Analyte detected in the associated Method Blank

DF- Dilution Factor

N - Parameter not NELAP certified

See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

RL - Reporting Limit (MQL adjusted for moisture and sample size)

SDL - Sample Detection Limit

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SGP-5 3-5 |
| Project: | Rosedale | Lab ID: | 2209090-51 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 08:47 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|----------------|---------|------|-----------|----|-------------------|
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| | | SW8260D | | | | | Analyst: JL |
| Bromochloromethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Bromodichloromethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Bromoform | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Bromomethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Carbon disulfide | <0.00544 | 0.00544 | 0.0163 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Carbon tetrachloride | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Chlorobenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Chloroethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Chloroform | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Chloromethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| cis-1,2-Dichloroethene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| cis-1,3-Dichloropropene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Cyclohexane | <0.00544 | 0.00544 | 0.0163 | N | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Dibromochloromethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Dibromomethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Dichlorodifluoromethane | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Ethylbenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Hexachlorobutadiene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Isopropylbenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| m,p-Xylene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Methyl Acetate | <0.00544 | 0.00544 | 0.0163 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Methyl tert-butyl ether | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Methylcyclohexane | <0.00544 | 0.00544 | 0.0163 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Methylene chloride | 0.00702 | 0.00544 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Naphthalene | <0.00544 | 0.00544 | 0.0163 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| n-Butylbenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| n-Propylbenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| o-Xylene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| p-Isopropyltoluene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| sec-Butylbenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Styrene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| tert-Butylbenzene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Tetrachloroethene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Toluene | 0.00188 | 0.00109 | 0.00544 | J | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| trans-1,2-Dichloroethene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| trans-1,3-Dichloropropene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Trichloroethene | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Trichlorofluoromethane | <0.00544 | 0.00544 | 0.0163 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Vinyl chloride | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |

Qualifiers: ND - Not Detected at the SDL

S - Spike Recovery outside control limits

J - Analyte detected between SDL and RL

C - Sample Result or QC discussed in Case Narrative

B - Analyte detected in the associated Method Blank

RL - Reporting Limit (MQL adjusted for moisture and sample size)

DF - Dilution Factor

SDL - Sample Detection Limit

N - Parameter not NELAP certified

E - TPH pattern not Gas or Diesel Range Pattern

See Final Page of Report for MQLs and MDLs

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SGP-5 3-5 |
| Project: | Rosedale | Lab ID: | 2209090-51 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 08:47 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| Xylenes, Total | <0.00109 | 0.00109 | 0.00544 | | mg/Kg-dry | 1 | 09/14/22 07:55 PM |
| Surr: 1,2-Dichloroethane-d4 | 96.7 | 0 | 52-149 | %REC | | 1 | 09/14/22 07:55 PM |
| Surr: 4-Bromofluorobenzene | 96.2 | 0 | 84-118 | %REC | | 1 | 09/14/22 07:55 PM |
| Surr: Dibromofluoromethane | 105 | 0 | 65-135 | %REC | | 1 | 09/14/22 07:55 PM |
| Surr: Toluene-d8 | 91.9 | 0 | 84-116 | %REC | | 1 | 09/14/22 07:55 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 10.9 | 0 | 0 | WT% | | 1 | 09/14/22 09:15 AM |

Qualifiers:
 ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SGP-6 1-3 |
| Project: | Rosedale | Lab ID: | 2209090-52 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 08:42 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TX1005 TPH SOIL | | | | | | | |
| T/R Hydrocarbons: C6-C12 | <10.2 | 10.2 | 29.3 | | mg/Kg-dry | 1 | 09/16/22 11:52 AM |
| T/R Hydrocarbons: >C12-C28 | <10.2 | 10.2 | 29.3 | | mg/Kg-dry | 1 | 09/16/22 11:52 AM |
| T/R Hydrocarbons: >C28-C35 | <10.2 | 10.2 | 29.3 | | mg/Kg-dry | 1 | 09/16/22 11:52 AM |
| T/R Hydrocarbons: C6-C35 | <10.2 | 10.2 | 29.3 | | mg/Kg-dry | 1 | 09/16/22 11:52 AM |
| Surr: Isopropylbenzene | 76.0 | 0 | 70-130 | %REC | | 1 | 09/16/22 11:52 AM |
| Surr: Octacosane | 97.4 | 0 | 70-130 | %REC | | 1 | 09/16/22 11:52 AM |
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| SW8260D | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,1,1-Trichloroethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,1,2,2-Tetrachloroethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,1,2-Trichloroethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,1,2-Trichlorotrifluoroethane | <0.00622 | 0.00622 | 0.0187 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,1-Dichloroethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,1-Dichloroethene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,1-Dichloropropene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,2,3-Trichlorobenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,2,3-Trichloropropane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,2,4-Trichlorobenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,2,4-Trimethylbenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,2-Dibromo-3-chloropropane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,2-Dibromoethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,2-Dichlorobenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,2-Dichloroethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,2-Dichloropropane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,3,5-Trimethylbenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,3-Dichlorobenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,3-Dichloropropane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1,4-Dichlorobenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 1-Chlorohexane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 2,2-Dichloropropane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 2-Butanone | <0.00622 | 0.00622 | 0.0187 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 2-Chlorotoluene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 2-Hexanone | <0.00622 | 0.00622 | 0.0187 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 4-Chlorotoluene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| 4-Methyl-2-pentanone | <0.00622 | 0.00622 | 0.0187 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Acetone | <0.0187 | 0.0187 | 0.0622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Benzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Bromobenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |

Qualifiers: ND - Not Detected at the SDL

J - Analyte detected between SDL and RL

B - Analyte detected in the associated Method Blank

DF- Dilution Factor

N - Parameter not NELAP certified

See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

RL - Reporting Limit (MQL adjusted for moisture and sample size)

SDL - Sample Detection Limit

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Sep-22

CLIENT: Terracon

Client Sample ID: SGP-6 1-3

Project: Rosedale

Lab ID: 2209090-52

Project No: 95207647 Task 3.6

Collection Date: 09/12/22 08:42 AM

Lab Order: 2209090

Matrix: SOIL

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| Bromochloromethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Bromodichloromethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Bromoform | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Bromomethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Carbon disulfide | <0.00622 | 0.00622 | 0.0187 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Carbon tetrachloride | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Chlorobenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Chloroethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Chloroform | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Chloromethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| cis-1,2-Dichloroethene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| cis-1,3-Dichloropropene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Cyclohexane | <0.00622 | 0.00622 | 0.0187 | N | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Dibromochloromethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Dibromomethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Dichlorodifluoromethane | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Ethylbenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Hexachlorobutadiene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Isopropylbenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| m,p-Xylene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Methyl Acetate | <0.00622 | 0.00622 | 0.0187 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Methyl tert-butyl ether | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Methylcyclohexane | <0.00622 | 0.00622 | 0.0187 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Methylene chloride | 0.00765 | 0.00622 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Naphthalene | <0.00622 | 0.00622 | 0.0187 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| n-Butylbenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| n-Propylbenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| o-Xylene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| p-Isopropyltoluene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| sec-Butylbenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Styrene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| tert-Butylbenzene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Tetrachloroethene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Toluene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| trans-1,2-Dichloroethene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| trans-1,3-Dichloropropene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Trichloroethene | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Trichlorofluoromethane | <0.00622 | 0.00622 | 0.0187 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Vinyl chloride | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |

Qualifiers: ND - Not Detected at the SDL

S - Spike Recovery outside control limits

J - Analyte detected between SDL and RL

C - Sample Result or QC discussed in Case Narrative

B - Analyte detected in the associated Method Blank

RL - Reporting Limit (MQL adjusted for moisture and sample size)

DF - Dilution Factor

SDL - Sample Detection Limit

N - Parameter not NELAP certified

E - TPH pattern not Gas or Diesel Range Pattern

See Final Page of Report for MQLs and MDLs

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | SGP-6 1-3 |
| Project: | Rosedale | Lab ID: | 2209090-52 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 08:42 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| VOLATILES BY 8260/5035 GC/MS | | | | | | | |
| Xylenes, Total | <0.00124 | 0.00124 | 0.00622 | | mg/Kg-dry | 1 | 09/14/22 08:23 PM |
| Surr: 1,2-Dichloroethane-d4 | 96.0 | 0 | 52-149 | %REC | | 1 | 09/14/22 08:23 PM |
| Surr: 4-Bromofluorobenzene | 102 | 0 | 84-118 | %REC | | 1 | 09/14/22 08:23 PM |
| Surr: Dibromofluoromethane | 105 | 0 | 65-135 | %REC | | 1 | 09/14/22 08:23 PM |
| Surr: Toluene-d8 | 92.9 | 0 | 84-116 | %REC | | 1 | 09/14/22 08:23 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 14.3 | 0 | 0 | WT% | | 1 | 09/14/22 09:15 AM |

Qualifiers:
 ND - Not Detected at the SDL
 J - Analyte detected between SDL and RL
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor
 N - Parameter not NELAP certified
 See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
 C - Sample Result or QC discussed in Case Narrative
 RL - Reporting Limit (MQL adjusted for moisture and sample size)
 SDL - Sample Detection Limit
 E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Sep-22

CLIENT: Terracon

Client Sample ID: TB-1

Project: Rosedale

Lab ID: 2209090-53

Project No: 95207647 Task 3.6

Collection Date: 09/12/22

Lab Order: 2209090

Matrix: TRIP BLANK

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|-----------|----------------|---------|------|-------|----|---------------------|
| 8260 WATER VOLATILES BY GC/MS | | | | | | | |
| | | SW8260D | | | | | Analyst: JVR |
| 1,1,1,2-Tetrachloroethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,1,1-Trichloroethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,1,2,2-Tetrachloroethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,1,2-Trichloroethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,1,2-Trichlorotrifluoroethane | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,1-Dichloroethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,1-Dichloroethene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,1-Dichloropropene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,2,3-Trichlorobenzene | <0.00150 | 0.00150 | 0.00500 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,2,3-Trichloropropane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,2,4-Trichlorobenzene | <0.00150 | 0.00150 | 0.00500 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,2,4-Trimethylbenzene | <0.00150 | 0.00150 | 0.00500 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,2-Dibromo-3-chloropropane | <0.00300 | 0.00300 | 0.0100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,2-Dibromoethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,2-Dichlorobenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,2-Dichloroethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,2-Dichloropropane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,3,5-Trimethylbenzene | <0.00150 | 0.00150 | 0.00500 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,3-Dichlorobenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,3-Dichloropropane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1,4-Dichlorobenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 1-Chlorohexane | <0.00100 | 0.00100 | 0.00500 | | mg/L | 1 | 09/13/22 12:20 PM |
| 2,2-Dichloropropane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 2-Butanone | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:20 PM |
| 2-Chlorotoluene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 2-Hexanone | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:20 PM |
| 4-Chlorotoluene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| 4-Methyl-2-pentanone | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:20 PM |
| Acetone | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:20 PM |
| Benzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Bromobenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Bromochloromethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Bromodichloromethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Bromoform | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Bromomethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Carbon disulfide | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:20 PM |
| Carbon tetrachloride | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Chlorobenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Chloroethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |

Qualifiers: ND - Not Detected at the SDL

S - Spike Recovery outside control limits

J - Analyte detected between SDL and RL

C - Sample Result or QC discussed in Case Narrative

B - Analyte detected in the associated Method Blank

RL - Reporting Limit (MQL adjusted for moisture and sample size)

DF- Dilution Factor

SDL - Sample Detection Limit

N - Parameter not NELAP certified

E - TPH pattern not Gas or Diesel Range Pattern

See Final Page of Report for MQLs and MDLs

DHL Analytical, Inc.

Date: 30-Sep-22

CLIENT: Terracon **Client Sample ID:** TB-1
Project: Rosedale **Lab ID:** 2209090-53
Project No: 95207647 Task 3.6 **Collection Date:** 09/12/22
Lab Order: 2209090 **Matrix:** TRIP BLANK

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|-----------|----------------|---------|------|-------|----|---------------------|
| 8260 WATER VOLATILES BY GC/MS | | | | | | | |
| | | SW8260D | | | | | Analyst: JVR |
| Chloroform | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Chloromethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| cis-1,2-Dichloroethene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| cis-1,3-Dichloropropene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Cyclohexane | <0.00500 | 0.00500 | 0.0150 | N | mg/L | 1 | 09/13/22 12:20 PM |
| Dibromochloromethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Dibromomethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Dichlorodifluoromethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Ethylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Hexachlorobutadiene | <0.00100 | 0.00100 | 0.00300 | | mg/L | 1 | 09/13/22 12:20 PM |
| Isopropylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| m,p-Xylene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 09/13/22 12:20 PM |
| Methyl Acetate | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:20 PM |
| Methyl tert-butyl ether | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Methylcyclohexane | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:20 PM |
| Methylene chloride | <0.00250 | 0.00250 | 0.00250 | | mg/L | 1 | 09/13/22 12:20 PM |
| Naphthalene | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:20 PM |
| n-Butylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| n-Propylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| o-Xylene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| p-Isopropyltoluene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| sec-Butylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Styrene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| tert-Butylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Tetrachloroethene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 09/13/22 12:20 PM |
| Toluene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 09/13/22 12:20 PM |
| trans-1,2-Dichloroethene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| trans-1,3-Dichloropropene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Trichloroethene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 09/13/22 12:20 PM |
| Trichlorofluoromethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Vinyl chloride | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Total Xylenes | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:20 PM |
| Surr: 1,2-Dichloroethane-d4 | 93.2 | 0 | 72-119 | | %REC | 1 | 09/13/22 12:20 PM |
| Surr: 4-Bromofluorobenzene | 96.2 | 0 | 76-119 | | %REC | 1 | 09/13/22 12:20 PM |
| Surr: Dibromofluoromethane | 99.9 | 0 | 85-115 | | %REC | 1 | 09/13/22 12:20 PM |
| Surr: Toluene-d8 | 94.0 | 0 | 81-120 | | %REC | 1 | 09/13/22 12:20 PM |

Qualifiers: ND - Not Detected at the SDL

J - Analyte detected between SDL and RL

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

N - Parameter not NELAP certified

See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

RL - Reporting Limit (MQL adjusted for moisture and sample size)

SDL - Sample Detection Limit

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 30-Sep-22

CLIENT: Terracon

Client Sample ID: TB-2

Project: Rosedale

Lab ID: 2209090-54

Project No: 95207647 Task 3.6

Collection Date: 09/12/22

Lab Order: 2209090

Matrix: TRIP BLANK

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|-----------|----------------|---------|------|-------|----|---------------------|
| 8260 WATER VOLATILES BY GC/MS | | | | | | | |
| | | SW8260D | | | | | Analyst: JVR |
| 1,1,1,2-Tetrachloroethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,1,1-Trichloroethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,1,2,2-Tetrachloroethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,1,2-Trichloroethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,1,2-Trichlorotrifluoroethane | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,1-Dichloroethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,1-Dichloroethene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,1-Dichloropropene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,2,3-Trichlorobenzene | <0.00150 | 0.00150 | 0.00500 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,2,3-Trichloropropane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,2,4-Trichlorobenzene | <0.00150 | 0.00150 | 0.00500 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,2,4-Trimethylbenzene | <0.00150 | 0.00150 | 0.00500 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,2-Dibromo-3-chloropropane | <0.00300 | 0.00300 | 0.0100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,2-Dibromoethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,2-Dichlorobenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,2-Dichloroethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,2-Dichloropropane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,3,5-Trimethylbenzene | <0.00150 | 0.00150 | 0.00500 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,3-Dichlorobenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,3-Dichloropropane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1,4-Dichlorobenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 1-Chlorohexane | <0.00100 | 0.00100 | 0.00500 | | mg/L | 1 | 09/13/22 12:46 PM |
| 2,2-Dichloropropane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 2-Butanone | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:46 PM |
| 2-Chlorotoluene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 2-Hexanone | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:46 PM |
| 4-Chlorotoluene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| 4-Methyl-2-pentanone | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:46 PM |
| Acetone | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:46 PM |
| Benzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Bromobenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Bromochloromethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Bromodichloromethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Bromoform | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Bromomethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Carbon disulfide | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:46 PM |
| Carbon tetrachloride | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Chlorobenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Chloroethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |

Qualifiers: ND - Not Detected at the SDL

S - Spike Recovery outside control limits

J - Analyte detected between SDL and RL

C - Sample Result or QC discussed in Case Narrative

B - Analyte detected in the associated Method Blank

RL - Reporting Limit (MQL adjusted for moisture and sample size)

DF- Dilution Factor

SDL - Sample Detection Limit

N - Parameter not NELAP certified

E - TPH pattern not Gas or Diesel Range Pattern

See Final Page of Report for MQLs and MDLs

DHL Analytical, Inc.

Date: 30-Sep-22

CLIENT: Terracon

Client Sample ID: TB-2

Project: Rosedale

Lab ID: 2209090-54

Project No: 95207647 Task 3.6

Collection Date: 09/12/22

Lab Order: 2209090

Matrix: TRIP BLANK

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|-----------|----------------|---------|------|-------|----|---------------------|
| 8260 WATER VOLATILES BY GC/MS | | | | | | | |
| | | SW8260D | | | | | Analyst: JVR |
| Chloroform | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Chloromethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| cis-1,2-Dichloroethene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| cis-1,3-Dichloropropene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Cyclohexane | <0.00500 | 0.00500 | 0.0150 | N | mg/L | 1 | 09/13/22 12:46 PM |
| Dibromochloromethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Dibromomethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Dichlorodifluoromethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Ethylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Hexachlorobutadiene | <0.00100 | 0.00100 | 0.00300 | | mg/L | 1 | 09/13/22 12:46 PM |
| Isopropylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| m,p-Xylene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 09/13/22 12:46 PM |
| Methyl Acetate | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:46 PM |
| Methyl tert-butyl ether | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Methylcyclohexane | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:46 PM |
| Methylene chloride | <0.00250 | 0.00250 | 0.00250 | | mg/L | 1 | 09/13/22 12:46 PM |
| Naphthalene | <0.00500 | 0.00500 | 0.0150 | | mg/L | 1 | 09/13/22 12:46 PM |
| n-Butylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| n-Propylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| o-Xylene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| p-Isopropyltoluene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| sec-Butylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Styrene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| tert-Butylbenzene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Tetrachloroethene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 09/13/22 12:46 PM |
| Toluene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 09/13/22 12:46 PM |
| trans-1,2-Dichloroethene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| trans-1,3-Dichloropropene | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Trichloroethene | <0.000600 | 0.000600 | 0.00200 | | mg/L | 1 | 09/13/22 12:46 PM |
| Trichlorofluoromethane | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Vinyl chloride | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Total Xylenes | <0.000300 | 0.000300 | 0.00100 | | mg/L | 1 | 09/13/22 12:46 PM |
| Surr: 1,2-Dichloroethane-d4 | 93.0 | 0 | 72-119 | | %REC | 1 | 09/13/22 12:46 PM |
| Surr: 4-Bromofluorobenzene | 98.9 | 0 | 76-119 | | %REC | 1 | 09/13/22 12:46 PM |
| Surr: Dibromofluoromethane | 101 | 0 | 85-115 | | %REC | 1 | 09/13/22 12:46 PM |
| Surr: Toluene-d8 | 93.9 | 0 | 81-120 | | %REC | 1 | 09/13/22 12:46 PM |

Qualifiers: ND - Not Detected at the SDL

S - Spike Recovery outside control limits

J - Analyte detected between SDL and RL

C - Sample Result or QC discussed in Case Narrative

B - Analyte detected in the associated Method Blank

RL - Reporting Limit (MQL adjusted for moisture and sample size)

DF - Dilution Factor

SDL - Sample Detection Limit

N - Parameter not NELAP certified

E - TPH pattern not Gas or Diesel Range Pattern

See Final Page of Report for MQLs and MDLs

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | Dup-SGP-1 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-55 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 11:23 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------------------------|-------|------|-----------|----|-----------------------------------|
| TRACE METALS: ICP-MS - SOLID Lead | 67.8 | SW6020B 0.108 | 0.323 | | mg/Kg-dry | 5 | Analyst: SP 09/19/22 11:19 AM |
| PERCENT MOISTURE Percent Moisture | 13.3 | D2216 0 | 0 | | WT% | 1 | Analyst: EAT 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.**Date:** 30-Sep-22

| | | | |
|--------------------|-------------------|--------------------------|-------------------|
| CLIENT: | Terracon | Client Sample ID: | Dup-SB-2 0-1 |
| Project: | Rosedale | Lab ID: | 2209090-56 |
| Project No: | 95207647 Task 3.6 | Collection Date: | 09/12/22 11:11 AM |
| Lab Order: | 2209090 | Matrix: | SOIL |

| Analyses | Result | SDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------------------------|-------|------|-----------|----|-----------------------------------|
| TRACE METALS: ICP-MS - SOLID Lead | 27.0 | SW6020B 0.113 | 0.338 | | mg/Kg-dry | 5 | Analyst: SP 09/19/22 11:22 AM |
| PERCENT MOISTURE Percent Moisture | 20.1 | D2216 0 | 0 | | WT% | 1 | Analyst: EAT 09/14/22 09:15 AM |

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT**RunID:** GC12_220811A

| | | | | | | | | | | |
|------------------------------|-----------------------------|--|-----------------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID: DCS-106575 | Batch ID: 106575 | TestNo: TX1005 | Units: mg/Kg | | | | | | | |
| SampType: DCS | Run ID: GC12_220811A | Analysis Date: 8/11/2022 2:52:27 PM | Prep Date: 8/11/2022 | | | | | | | |
| Analyte | | | | | | | | | | |
| T/R Hydrocarbons: C6-C35 | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GC12_220916A

The QC data in batch 107049 applies to the following samples: 2209090-04B, 2209090-06B, 2209090-10B, 2209090-51B, 2209090-52B

| Sample ID: MB-107049 | Batch ID: 107049 | TestNo: TX1005 | Units: mg/Kg | | | | | | | |
|----------------------------|----------------------|-------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: GC12_220916A | Analysis Date: 9/16/2022 9:59:24 AM | Prep Date: 9/15/2022 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C6-C12 | <7.00 | 20.0 | | | | | | | | |
| T/R Hydrocarbons: >C12-C28 | <7.00 | 20.0 | | | | | | | | |
| T/R Hydrocarbons: >C28-C35 | <7.00 | 20.0 | | | | | | | | |
| T/R Hydrocarbons: C6-C35 | <7.00 | 20.0 | | | | | | | | |
| Surr: Isopropylbenzene | 18.3 | | 25.00 | | 73.1 | 70 | 130 | | | |
| Surr: Octacosane | 24.1 | | 25.00 | | 96.4 | 70 | 130 | | | |

| Sample ID: LCS-107049 | Batch ID: 107049 | TestNo: TX1005 | Units: mg/Kg | | | | | | | |
|--------------------------|----------------------|--------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: GC12_220916A | Analysis Date: 9/16/2022 10:08:27 AM | Prep Date: 9/15/2022 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C6-C35 | 245 | 20.0 | 250.0 | 0 | 97.8 | 75 | 125 | | | |
| Surr: Isopropylbenzene | 21.8 | | 25.00 | | 87.1 | 70 | 130 | | | |
| Surr: Octacosane | 25.0 | | 25.00 | | 100 | 70 | 130 | | | |

| Sample ID: LCSD-107049 | Batch ID: 107049 | TestNo: TX1005 | Units: mg/Kg | | | | | | | |
|--------------------------|----------------------|--------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCSD | Run ID: GC12_220916A | Analysis Date: 9/16/2022 10:17:30 AM | Prep Date: 9/15/2022 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C6-C35 | 241 | 20.0 | 250.0 | 0 | 96.5 | 75 | 125 | 1.36 | 20 | |
| Surr: Isopropylbenzene | 21.9 | | 25.00 | | 87.7 | 70 | 130 | 0 | 0 | |
| Surr: Octacosane | 24.2 | | 25.00 | | 96.6 | 70 | 130 | 0 | 0 | |

| Sample ID: 2209090-10BMS | Batch ID: 107049 | TestNo: TX1005 | Units: mg/Kg-dry | | | | | | | |
|--------------------------|----------------------|--------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: GC12_220916A | Analysis Date: 9/16/2022 11:25:48 AM | Prep Date: 9/15/2022 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C6-C35 | 328 | 26.8 | 334.6 | 0 | 98.0 | 75 | 125 | | | |
| Surr: Isopropylbenzene | 29.3 | | 33.46 | | 87.7 | 70 | 130 | | | |
| Surr: Octacosane | 33.0 | | 33.46 | | 98.6 | 70 | 130 | | | |

| Sample ID: 2209090-10BMSD | Batch ID: 107049 | TestNo: TX1005 | Units: mg/Kg-dry | | | | | | | |
|---------------------------|----------------------|--------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MSD | Run ID: GC12_220916A | Analysis Date: 9/16/2022 11:34:50 AM | Prep Date: 9/15/2022 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C6-C35 | 303 | 24.3 | 303.6 | 0 | 99.7 | 75 | 125 | 7.92 | 20 | |
| Surr: Isopropylbenzene | 27.1 | | 30.36 | | 89.3 | 70 | 130 | 0 | 0 | |
| Surr: Octacosane | 31.2 | | 30.36 | | 103 | 70 | 130 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GC12_220916A

| Sample ID: ICV-220916 | Batch ID: R123120 | TestNo: TX1005 | | | Units: | mg/Kg | | | | |
|--------------------------|----------------------|-------------------------------------|-----------|---------|------------|----------|-----------|------|----------|------|
| SampType: ICV | Run ID: GC12_220916A | Analysis Date: 9/16/2022 9:28:11 AM | | | Prep Date: | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C6-C35 | 1060 | 20.0 | 1000 | 0 | 106 | 75 | 125 | | | |
| Surr: Isopropylbenzene | 47.4 | | 50.00 | | 94.8 | 70 | 130 | | | |
| Surr: Octacosane | 48.6 | | 50.00 | | 97.3 | 70 | 130 | | | |

| Sample ID: CCV1-220916 | Batch ID: R123120 | TestNo: TX1005 | | | Units: | mg/Kg | | | | |
|--------------------------|----------------------|-------------------------------------|-----------|---------|------------|----------|-----------|------|----------|------|
| SampType: CCV | Run ID: GC12_220916A | Analysis Date: 9/16/2022 2:15:10 PM | | | Prep Date: | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C6-C35 | 515 | 20.0 | 500.0 | 0 | 103 | 75 | 125 | | | |
| Surr: Isopropylbenzene | 25.8 | | 25.00 | | 103 | 70 | 130 | | | |
| Surr: Octacosane | 26.1 | | 25.00 | | 105 | 70 | 130 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GC12_220923A

The QC data in batch 107114 applies to the following samples: 2209090-05A, 2209090-11A

| Sample ID: MB-107114 | Batch ID: 107114 | TestNo: | TX1005 | Units: | mg/Kg | | | | | |
|-----------------------------|-----------------------------|---|---------------|---------|-----------------------------|----------|-----------|------|----------|------|
| SampType: MLBK | Run ID: GC12_220923A | Analysis Date: 9/23/2022 11:51:03 AM | | | Prep Date: 9/23/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C6-C12 | <7.00 | 20.0 | | | | | | | | |
| T/R Hydrocarbons: >C12-C28 | <7.00 | 20.0 | | | | | | | | |
| T/R Hydrocarbons: >C28-C35 | <7.00 | 20.0 | | | | | | | | |
| T/R Hydrocarbons: C6-C35 | <7.00 | 20.0 | | | | | | | | |
| Surr: Isopropylbenzene | 18.8 | | 25.00 | | 75.2 | 70 | 130 | | | |
| Surr: Octacosane | 24.4 | | 25.00 | | 97.5 | 70 | 130 | | | |

| Sample ID: LCS-107114 | Batch ID: 107114 | TestNo: | TX1005 | Units: | mg/Kg | | | | | |
|------------------------------|-----------------------------|---|---------------|---------|-----------------------------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: GC12_220923A | Analysis Date: 9/23/2022 12:00:06 PM | | | Prep Date: 9/23/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C6-C35 | 240 | 20.0 | 250.0 | 0 | 95.9 | 75 | 125 | | | |
| Surr: Isopropylbenzene | 21.9 | | 25.00 | | 87.7 | 70 | 130 | | | |
| Surr: Octacosane | 24.8 | | 25.00 | | 99.2 | 70 | 130 | | | |

| Sample ID: LCSD-107114 | Batch ID: 107114 | TestNo: | TX1005 | Units: | mg/Kg | | | | | |
|-------------------------------|-----------------------------|---|---------------|---------|-----------------------------|----------|-----------|------|----------|------|
| SampType: LCSD | Run ID: GC12_220923A | Analysis Date: 9/23/2022 12:09:09 PM | | | Prep Date: 9/23/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C6-C35 | 247 | 20.0 | 250.0 | 0 | 99.0 | 75 | 125 | 3.11 | 20 | |
| Surr: Isopropylbenzene | 22.2 | | 25.00 | | 88.6 | 70 | 130 | 0 | 0 | |
| Surr: Octacosane | 25.0 | | 25.00 | | 100 | 70 | 130 | 0 | 0 | |

| Sample ID: 2209090-11AMS | Batch ID: 107114 | TestNo: | TX1005 | Units: | mg/Kg-dry | | | | | |
|---------------------------------|-----------------------------|---|---------------|---------|-----------------------------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: GC12_220923A | Analysis Date: 9/23/2022 12:36:16 PM | | | Prep Date: 9/23/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C6-C35 | 281 | 23.3 | 291.5 | 0 | 96.3 | 75 | 125 | | | |
| Isopropylbenzene | 31.1 | 0 | 29.15 | 0 | 107 | 70 | 130 | | | |
| Surr: Octacosane | 29.0 | | 29.15 | | 99.5 | 70 | 130 | | | |

| Sample ID: 2209090-11AMSD | Batch ID: 107114 | TestNo: | TX1005 | Units: | mg/Kg-dry | | | | | |
|----------------------------------|-----------------------------|---|---------------|---------|-----------------------------|----------|-----------|-------|----------|------|
| SampType: MSD | Run ID: GC12_220923A | Analysis Date: 9/23/2022 12:45:17 PM | | | Prep Date: 9/23/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| T/R Hydrocarbons: C6-C35 | 280 | 22.9 | 286.4 | 0 | 97.8 | 75 | 125 | 0.235 | 20 | |
| Isopropylbenzene | 25.9 | 0 | 28.64 | 0 | 90.5 | 70 | 130 | 0 | 0 | |
| Surr: Octacosane | 29.4 | | 28.64 | | 103 | 70 | 130 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GC12_220923A

| Sample ID: ICV-220923 | Batch ID: R123197 | TestNo: TX1005 | | Units: mg/Kg |
|--------------------------|----------------------|---|-----------|--|
| SampType: ICV | Run ID: GC12_220923A | Analysis Date: 9/23/2022 11:39:44 AM Prep Date: | | |
| Analyte | Result | RL | SPK value | Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| T/R Hydrocarbons: C6-C35 | 1110 | 20.0 | 1000 | 0 111 75 125 |
| Surr: Isopropylbenzene | 49.0 | | 50.00 | 98.0 70 130 |
| Surr: Octacosane | 51.5 | | 50.00 | 103 70 130 |

| Sample ID: CCV1-220923 | Batch ID: R123197 | TestNo: TX1005 | | Units: mg/Kg |
|--------------------------|----------------------|--|-----------|--|
| SampType: CCV | Run ID: GC12_220923A | Analysis Date: 9/23/2022 2:19:17 PM Prep Date: | | |
| Analyte | Result | RL | SPK value | Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| T/R Hydrocarbons: C6-C35 | 559 | 20.0 | 500.0 | 0 112 75 125 |
| Surr: Isopropylbenzene | 27.4 | | 25.00 | 110 70 130 |
| Surr: Octacosane | 27.3 | | 25.00 | 109 70 130 |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_220822A

| Sample ID: DCS1-106707 | Batch ID: 106707 | TestNo: SW6020B | Units: mg/Kg | | | | | | | | |
|------------------------|-------------------------|--------------------------------------|----------------------|-----------|---------|------|----------|-----------|------|----------|------|
| SampType: DCS | Run ID: ICP-MS5_220822A | Analysis Date: 8/22/2022 11:23:00 AM | Prep Date: 8/19/2022 | | | | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | | 0.305 | 0.300 | 0.2500 | 0 | 122 | 70 | 130 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_220915A

The QC data in batch 107032 applies to the following samples: 2209090-01A, 2209090-07A, 2209090-12A, 2209090-15A, 2209090-18A, 2209090-21A, 2209090-24A, 2209090-27A, 2209090-30A, 2209090-33A

| Sample ID: | MB-107032 | Batch ID: | 107032 | TestNo: | SW6020B | Units: | mg/Kg | | | |
|------------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|-------|----------|------|
| SampType: | MLBK | Run ID: | ICP-MS5_220915A | Analysis Date: | 9/15/2022 2:02:00 PM | Prep Date: | 9/14/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | <0.100 | 0.300 | | | | | | | | |
| Sample ID: | LCS-107032 | Batch ID: | 107032 | TestNo: | SW6020B | Units: | mg/Kg | | | |
| SampType: | LCS | Run ID: | ICP-MS5_220915A | Analysis Date: | 9/15/2022 2:04:00 PM | Prep Date: | 9/14/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 50.6 | 0.300 | 50.00 | 0 | 101 | 80 | 120 | | | |
| Sample ID: | LCSD-107032 | Batch ID: | 107032 | TestNo: | SW6020B | Units: | mg/Kg | | | |
| SampType: | LCSD | Run ID: | ICP-MS5_220915A | Analysis Date: | 9/15/2022 2:07:00 PM | Prep Date: | 9/14/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 50.1 | 0.300 | 50.00 | 0 | 100 | 80 | 120 | 0.926 | 25 | |
| Sample ID: | 2209090-33A SD | Batch ID: | 107032 | TestNo: | SW6020B | Units: | mg/Kg-dry | | | |
| SampType: | SD | Run ID: | ICP-MS5_220915A | Analysis Date: | 9/15/2022 2:14:00 PM | Prep Date: | 9/14/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 16.3 | 1.59 | 0 | 18.06 | | | | 10.5 | 20 | |
| Sample ID: | 2209090-33A PDS | Batch ID: | 107032 | TestNo: | SW6020B | Units: | mg/Kg-dry | | | |
| SampType: | PDS | Run ID: | ICP-MS5_220915A | Analysis Date: | 9/15/2022 2:40:00 PM | Prep Date: | 9/14/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 73.8 | 0.318 | 52.98 | 18.06 | 105 | 75 | 125 | | | |
| Sample ID: | 2209090-33A MS | Batch ID: | 107032 | TestNo: | SW6020B | Units: | mg/Kg-dry | | | |
| SampType: | MS | Run ID: | ICP-MS5_220915A | Analysis Date: | 9/15/2022 2:42:00 PM | Prep Date: | 9/14/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 66.9 | 0.303 | 50.55 | 18.06 | 96.7 | 75 | 125 | | | |
| Sample ID: | 2209090-33A MSD | Batch ID: | 107032 | TestNo: | SW6020B | Units: | mg/Kg-dry | | | |
| SampType: | MSD | Run ID: | ICP-MS5_220915A | Analysis Date: | 9/15/2022 2:45:00 PM | Prep Date: | 9/14/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 67.0 | 0.301 | 50.09 | 18.06 | 97.7 | 75 | 125 | 0.082 | 25 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_220915A

| Sample ID: CCV5-220915 | Batch ID: R123103 | TestNo: SW6020B | Units: mg/Kg |
|------------------------|-------------------------|--------------------------------------|-------------------|
| SampType: CCV | Run ID: ICP-MS5_220915A | Analysis Date: 9/15/2022 2:47:00 PM | Prep Date: |
| Analyte | | | |
| Lead | Result 0.196 | RL 0.0600 | SPK value 0.2000 |
| | Ref Val 0 | %REC 97.9 | LowLimit 90 |
| | HighLimit 110 | %RPD | RPDLimit Qual |
| Sample ID: CCV6-220915 | Batch ID: R123103 | TestNo: SW6020B | Units: mg/Kg |
| SampType: CCV | Run ID: ICP-MS5_220915A | Analysis Date: 9/15/2022 3:18:00 PM | Prep Date: |
| Analyte | | | |
| Lead | Result 0.194 | RL 0.0600 | SPK value 0.2000 |
| | Ref Val 0 | %REC 97.1 | LowLimit 90 |
| | HighLimit 110 | %RPD | RPDLimit Qual |
| Sample ID: ICV-220915 | Batch ID: R123103 | TestNo: SW6020B | Units: mg/L |
| SampType: ICV | Run ID: ICP-MS5_220915A | Analysis Date: 9/15/2022 10:36:00 AM | Prep Date: |
| Analyte | | | |
| Lead | Result 0.0979 | RL 0.00100 | SPK value 0.100 |
| | Ref Val 0 | %REC 97.9 | LowLimit 90 |
| | HighLimit 110 | %RPD | RPDLimit Qual |
| Sample ID: LCVL-220915 | Batch ID: R123103 | TestNo: SW6020B | Units: mg/L |
| SampType: LCVL | Run ID: ICP-MS5_220915A | Analysis Date: 9/15/2022 10:42:00 AM | Prep Date: |
| Analyte | | | |
| Lead | Result 0.00104 | RL 0.00100 | SPK value 0.00100 |
| | Ref Val 0 | %REC 104 | LowLimit 80 |
| | HighLimit 120 | %RPD | RPDLimit Qual |
| Sample ID: CCV4-220915 | Batch ID: R123103 | TestNo: SW6020B | Units: mg/L |
| SampType: CCV | Run ID: ICP-MS5_220915A | Analysis Date: 9/15/2022 1:36:00 PM | Prep Date: |
| Analyte | | | |
| Lead | Result 0.195 | RL 0.00100 | SPK value 0.200 |
| | Ref Val 0 | %REC 97.3 | LowLimit 90 |
| | HighLimit 110 | %RPD | RPDLimit Qual |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_220919A

The QC data in batch 107053 applies to the following samples: 2209090-36A, 2209090-39A, 2209090-42A, 2209090-45A, 2209090-48A, 2209090-55A, 2209090-56A

| Sample ID: | MB-107053 | Batch ID: | 107053 | TestNo: | SW6020B | Units: | mg/Kg | | | |
|------------|-------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-------|----------|------|
| SampType: | MBLK | Run ID: | ICP-MS5_220919A | Analysis Date: | 9/19/2022 10:23:00 AM | Prep Date: | 9/16/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | <0.100 | 0.300 | | | | | | | | |
| Sample ID: | LCS-107053 | Batch ID: | 107053 | TestNo: | SW6020B | Units: | mg/Kg | | | |
| SampType: | LCS | Run ID: | ICP-MS5_220919A | Analysis Date: | 9/19/2022 10:25:00 AM | Prep Date: | 9/16/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 50.7 | 0.300 | 50.00 | 0 | 101 | 80 | 120 | | | |
| Sample ID: | LCSD-107053 | Batch ID: | 107053 | TestNo: | SW6020B | Units: | mg/Kg | | | |
| SampType: | LCSD | Run ID: | ICP-MS5_220919A | Analysis Date: | 9/19/2022 10:28:00 AM | Prep Date: | 9/16/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 50.5 | 0.300 | 50.00 | 0 | 101 | 80 | 120 | 0.369 | 25 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_220919A

| Sample ID: CCV1-220919 | Batch ID: R123121 | TestNo: SW6020B | Units: mg/Kg | | | | | | | |
|------------------------|-------------------------|--------------------------------------|--------------|---------|------|----------|-----------|------|----------|------|
| SampType: CCV | Run ID: ICP-MS5_220919A | Analysis Date: 9/19/2022 11:09:00 AM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 0.210 | 0.0600 | 0.2000 | 0 | 105 | 90 | 110 | | | |
| Sample ID: CCV2-220919 | Batch ID: R123121 | TestNo: SW6020B | Units: mg/Kg | | | | | | | |
| SampType: CCV | Run ID: ICP-MS5_220919A | Analysis Date: 9/19/2022 11:42:00 AM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 0.192 | 0.0600 | 0.2000 | 0 | 96.0 | 90 | 110 | | | |
| Sample ID: ICV-220919 | Batch ID: R123121 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: ICV | Run ID: ICP-MS5_220919A | Analysis Date: 9/19/2022 10:06:00 AM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 0.102 | 0.00100 | 0.100 | 0 | 102 | 90 | 110 | | | |
| Sample ID: LCVL-220919 | Batch ID: R123121 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: LCVL | Run ID: ICP-MS5_220919A | Analysis Date: 9/19/2022 10:15:00 AM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 0.000994 | 0.00100 | 0.00100 | 0 | 99.4 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_220929B

The QC data in batch 107168 applies to the following samples: 2209090-25A, 2209090-37A, 2209090-49A

| Sample ID: | MB-107168 | Batch ID: | 107168 | TestNo: | SW6020B | Units: | mg/Kg | | | |
|------------|-----------------|-----------|-----------------|----------------|-----------------------|------------|-----------|-------|----------|------|
| SampType: | MLBK | Run ID: | ICP-MS5_220929B | Analysis Date: | 9/29/2022 11:23:00 AM | Prep Date: | 9/28/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | <0.100 | 0.300 | | | | | | | | |
| Sample ID: | LCS-107168 | Batch ID: | 107168 | TestNo: | SW6020B | Units: | mg/Kg | | | |
| SampType: | LCS | Run ID: | ICP-MS5_220929B | Analysis Date: | 9/29/2022 11:26:00 AM | Prep Date: | 9/28/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 50.1 | 0.300 | 50.00 | 0 | 100 | 80 | 120 | | | |
| Sample ID: | LCSD-107168 | Batch ID: | 107168 | TestNo: | SW6020B | Units: | mg/Kg | | | |
| SampType: | LCSD | Run ID: | ICP-MS5_220929B | Analysis Date: | 9/29/2022 11:28:00 AM | Prep Date: | 9/28/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 50.2 | 0.300 | 50.00 | 0 | 100 | 80 | 120 | 0.294 | 25 | |
| Sample ID: | 2209090-49A SD | Batch ID: | 107168 | TestNo: | SW6020B | Units: | mg/Kg-dry | | | |
| SampType: | SD | Run ID: | ICP-MS5_220929B | Analysis Date: | 9/29/2022 11:36:00 AM | Prep Date: | 9/28/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 98.5 | 1.43 | 0 | 101.8 | | | | 3.31 | 20 | |
| Sample ID: | 2209090-49A PDS | Batch ID: | 107168 | TestNo: | SW6020B | Units: | mg/Kg-dry | | | |
| SampType: | PDS | Run ID: | ICP-MS5_220929B | Analysis Date: | 9/29/2022 12:01:00 PM | Prep Date: | 9/28/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 155 | 0.286 | 47.67 | 101.8 | 111 | 75 | 125 | | | |
| Sample ID: | 2209090-49A MS | Batch ID: | 107168 | TestNo: | SW6020B | Units: | mg/Kg-dry | | | |
| SampType: | MS | Run ID: | ICP-MS5_220929B | Analysis Date: | 9/29/2022 12:04:00 PM | Prep Date: | 9/28/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 188 | 0.288 | 48.08 | 101.8 | 180 | 75 | 125 | | | S |
| Sample ID: | 2209090-49A MSD | Batch ID: | 107168 | TestNo: | SW6020B | Units: | mg/Kg-dry | | | |
| SampType: | MSD | Run ID: | ICP-MS5_220929B | Analysis Date: | 9/29/2022 12:06:00 PM | Prep Date: | 9/28/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 175 | 0.286 | 47.67 | 101.8 | 154 | 75 | 125 | 7.42 | 25 | S |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_220929B

| Sample ID: CCV1-220929 | Batch ID: R123269 | TestNo: SW6020B | Units: mg/Kg | | | | | | | |
|------------------------|-------------------------|--------------------------------------|--------------|---------|------|----------|-----------|------|----------|------|
| SampType: CCV | Run ID: ICP-MS5_220929B | Analysis Date: 9/29/2022 11:15:00 AM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 0.197 | 0.0600 | 0.2000 | 0 | 98.7 | 90 | 110 | | | |
| Sample ID: CCV2-220929 | Batch ID: R123269 | TestNo: SW6020B | Units: mg/Kg | | | | | | | |
| SampType: CCV | Run ID: ICP-MS5_220929B | Analysis Date: 9/29/2022 12:12:00 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 0.198 | 0.0600 | 0.2000 | 0 | 98.9 | 90 | 110 | | | |
| Sample ID: ICV-220929 | Batch ID: R123269 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: ICV | Run ID: ICP-MS5_220929B | Analysis Date: 9/29/2022 10:33:00 AM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 0.0998 | 0.00100 | 0.100 | 0 | 99.8 | 90 | 110 | | | |
| Sample ID: LCVL-220929 | Batch ID: R123269 | TestNo: SW6020B | Units: mg/L | | | | | | | |
| SampType: LCVL | Run ID: ICP-MS5_220929B | Analysis Date: 9/29/2022 10:39:00 AM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | 0.00101 | 0.00100 | 0.00100 | 0 | 101 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_220915A

| Sample ID: DCS-107002 | Batch ID: 107002 | TestNo: SW8260D | Units: mg/Kg | | | | | | | |
|--------------------------------|-----------------------|--------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DCS | Run ID: GCMS1_220915A | Analysis Date: 9/15/2022 11:30:00 PM | Prep Date: 9/15/2022 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 0.00215 | 0.00500 | 0.00232 | 0 | 92.8 | 10 | 400 | 0 | 0 | 0 |
| 1,1,1-Trichloroethane | 0.00220 | 0.00500 | 0.00232 | 0 | 94.6 | 10 | 400 | 0 | 0 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.00200 | 0.00500 | 0.00232 | 0 | 86.3 | 10 | 400 | 0 | 0 | 0 |
| 1,1,2-Trichloroethane | 0.00220 | 0.00500 | 0.00232 | 0 | 95.0 | 10 | 400 | 0 | 0 | 0 |
| 1,1,2-Trichlorotrifluoroethane | 0.00190 | 0.0150 | 0.00232 | 0 | 81.9 | 10 | 400 | 0 | 0 | 0 |
| 1,1-Dichloroethane | 0.00225 | 0.00500 | 0.00232 | 0 | 97.0 | 10 | 400 | 0 | 0 | 0 |
| 1,1-Dichloroethene | 0.00199 | 0.00500 | 0.00232 | 0 | 85.9 | 10 | 400 | 0 | 0 | 0 |
| 1,1-Dichloropropene | 0.00208 | 0.00500 | 0.00232 | 0 | 89.7 | 10 | 400 | 0 | 0 | 0 |
| 1,2,3-Trichlorobenzene | 0.00221 | 0.00500 | 0.00232 | 0 | 95.3 | 10 | 400 | 0 | 0 | 0 |
| 1,2,3-Trichloropropane | 0.00192 | 0.00500 | 0.00232 | 0 | 82.6 | 10 | 400 | 0 | 0 | 0 |
| 1,2,4-Trichlorobenzene | 0.00206 | 0.00500 | 0.00232 | 0 | 88.7 | 10 | 400 | 0 | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0.00195 | 0.00500 | 0.00232 | 0 | 84.0 | 10 | 400 | 0 | 0 | 0 |
| 1,2-Dibromo-3-chloropropane | 0.00187 | 0.00500 | 0.00232 | 0 | 80.6 | 10 | 400 | 0 | 0 | 0 |
| 1,2-Dibromoethane | 0.00210 | 0.00500 | 0.00232 | 0 | 90.6 | 10 | 400 | 0 | 0 | 0 |
| 1,2-Dichlorobenzene | 0.00218 | 0.00500 | 0.00232 | 0 | 94.0 | 10 | 400 | 0 | 0 | 0 |
| 1,2-Dichloroethane | 0.00213 | 0.00500 | 0.00232 | 0 | 91.7 | 10 | 400 | 0 | 0 | 0 |
| 1,2-Dichloropropane | 0.00218 | 0.00500 | 0.00232 | 0 | 94.0 | 10 | 400 | 0 | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0.00188 | 0.00500 | 0.00232 | 0 | 81.2 | 10 | 400 | 0 | 0 | 0 |
| 1,3-Dichlorobenzene | 0.00220 | 0.00500 | 0.00232 | 0 | 94.9 | 10 | 400 | 0 | 0 | 0 |
| 1,3-Dichloropropane | 0.00223 | 0.00500 | 0.00232 | 0 | 96.3 | 10 | 400 | 0 | 0 | 0 |
| 1,4-Dichlorobenzene | 0.00222 | 0.00500 | 0.00232 | 0 | 95.7 | 10 | 400 | 0 | 0 | 0 |
| 1-Chlorohexane | 0.00320 | 0.00500 | 0.00232 | 0 | 138 | 10 | 400 | 0 | 0 | 0 |
| 2,2-Dichloropropane | 0.00252 | 0.00500 | 0.00232 | 0 | 108 | 10 | 400 | 0 | 0 | 0 |
| 2-Butanone | 0.0104 | 0.0150 | 0.0116 | 0 | 89.5 | 10 | 400 | 0 | 0 | 0 |
| 2-Chlorotoluene | 0.00213 | 0.00500 | 0.00232 | 0 | 91.9 | 10 | 400 | 0 | 0 | 0 |
| 2-Hexanone | 0.00996 | 0.0150 | 0.0116 | 0 | 85.9 | 10 | 400 | 0 | 0 | 0 |
| 4-Chlorotoluene | 0.00206 | 0.00500 | 0.00232 | 0 | 88.9 | 10 | 400 | 0 | 0 | 0 |
| 4-Methyl-2-pentanone | 0.00988 | 0.0150 | 0.0116 | 0 | 85.2 | 10 | 400 | 0 | 0 | 0 |
| Acetone | 0.00716 | 0.0500 | 0.0116 | 0 | 61.7 | 10 | 400 | 0 | 0 | 0 |
| Benzene | 0.00216 | 0.00500 | 0.00232 | 0 | 93.2 | 10 | 400 | 0 | 0 | 0 |
| Bromobenzene | 0.00216 | 0.00500 | 0.00232 | 0 | 93.0 | 10 | 400 | 0 | 0 | 0 |
| Bromochloromethane | 0.00216 | 0.00500 | 0.00232 | 0 | 93.1 | 10 | 400 | 0 | 0 | 0 |
| Bromodichloromethane | 0.00209 | 0.00500 | 0.00232 | 0 | 90.0 | 10 | 400 | 0 | 0 | 0 |
| Bromoform | 0.00189 | 0.00500 | 0.00232 | 0 | 81.5 | 10 | 400 | 0 | 0 | 0 |
| Bromomethane | 0.00305 | 0.00500 | 0.00232 | 0 | 131 | 10 | 400 | 0 | 0 | 0 |
| Carbon disulfide | 0.00178 | 0.0150 | 0.00232 | 0 | 76.9 | 10 | 400 | 0 | 0 | 0 |
| Carbon tetrachloride | 0.00221 | 0.00500 | 0.00232 | 0 | 95.1 | 10 | 400 | 0 | 0 | 0 |
| Chlorobenzene | 0.00230 | 0.00500 | 0.00232 | 0 | 98.9 | 10 | 400 | 0 | 0 | 0 |
| Chloroethane | 0.00242 | 0.00500 | 0.00232 | 0 | 104 | 10 | 400 | 0 | 0 | 0 |
| Chloroform | 0.00219 | 0.00500 | 0.00232 | 0 | 94.3 | 10 | 400 | 0 | 0 | 0 |
| Chloromethane | 0.00217 | 0.00500 | 0.00232 | 0 | 93.6 | 10 | 400 | 0 | 0 | 0 |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_220915A

| Sample ID: DCS-107002 | Batch ID: 107002 | TestNo: SW8260D | | Units: | mg/Kg | | | | | |
|---------------------------|-----------------------|--------------------------------------|-----------|---------|------------|-----------|-----------|------|----------|------|
| SampType: DCS | Run ID: GCMS1_220915A | Analysis Date: 9/15/2022 11:30:00 PM | | | Prep Date: | 9/15/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| cis-1,2-Dichloroethene | 0.00222 | 0.00500 | 0.00232 | 0 | 95.8 | 10 | 400 | 0 | 0 | |
| cis-1,3-Dichloropropene | 0.00204 | 0.00500 | 0.00232 | 0 | 88.1 | 10 | 400 | 0 | 0 | |
| Cyclohexane | 0.00256 | 0.0150 | 0.00232 | 0 | 110 | 10 | 400 | 0 | 0 | N |
| Dibromochloromethane | 0.00217 | 0.00500 | 0.00232 | 0 | 93.6 | 10 | 400 | 0 | 0 | |
| Dibromomethane | 0.00213 | 0.00500 | 0.00232 | 0 | 91.6 | 10 | 400 | 0 | 0 | |
| Dichlorodifluoromethane | 0.00179 | 0.00500 | 0.00232 | 0 | 77.2 | 10 | 400 | 0 | 0 | |
| Ethylbenzene | 0.00223 | 0.00500 | 0.00232 | 0 | 96.1 | 10 | 400 | 0 | 0 | |
| Hexachlorobutadiene | 0.00231 | 0.00500 | 0.00232 | 0 | 99.5 | 10 | 400 | 0 | 0 | |
| Isopropylbenzene | 0.00218 | 0.00500 | 0.00232 | 0 | 94.0 | 10 | 400 | 0 | 0 | |
| m,p-Xylene | 0.00406 | 0.00500 | 0.00464 | 0 | 87.6 | 10 | 400 | 0 | 0 | |
| Methyl Acetate | 0.00242 | 0.0150 | 0.00232 | 0 | 104 | 10 | 400 | 0 | 0 | |
| Methyl tert-butyl ether | 0.00215 | 0.00500 | 0.00232 | 0 | 92.5 | 10 | 400 | 0 | 0 | |
| Methylcyclohexane | 0.00240 | 0.0150 | 0.00232 | 0 | 104 | 10 | 400 | 0 | 0 | |
| Methylene chloride | 0.00195 | 0.00500 | 0.00232 | 0 | 83.9 | 10 | 400 | 0 | 0 | |
| Naphthalene | 0.00192 | 0.0150 | 0.00232 | 0 | 82.6 | 10 | 400 | 0 | 0 | |
| n-Butylbenzene | 0.00205 | 0.00500 | 0.00232 | 0 | 88.4 | 10 | 400 | 0 | 0 | |
| n-Propylbenzene | 0.00213 | 0.00500 | 0.00232 | 0 | 91.7 | 10 | 400 | 0 | 0 | |
| o-Xylene | 0.00214 | 0.00500 | 0.00232 | 0 | 92.2 | 10 | 400 | 0 | 0 | |
| p-Isopropyltoluene | 0.00190 | 0.00500 | 0.00232 | 0 | 81.9 | 10 | 400 | 0 | 0 | |
| sec-Butylbenzene | 0.00201 | 0.00500 | 0.00232 | 0 | 86.5 | 10 | 400 | 0 | 0 | |
| Styrene | 0.00182 | 0.00500 | 0.00232 | 0 | 78.4 | 10 | 400 | 0 | 0 | |
| tert-Butylbenzene | 0.00206 | 0.00500 | 0.00232 | 0 | 88.7 | 10 | 400 | 0 | 0 | |
| Tetrachloroethene | 0.00206 | 0.00500 | 0.00232 | 0 | 88.8 | 10 | 400 | 0 | 0 | |
| Toluene | 0.00225 | 0.00500 | 0.00232 | 0 | 96.9 | 10 | 400 | 0 | 0 | |
| trans-1,2-Dichloroethene | 0.00216 | 0.00500 | 0.00232 | 0 | 92.9 | 10 | 400 | 0 | 0 | |
| trans-1,3-Dichloropropene | 0.00296 | 0.00500 | 0.00232 | 0 | 128 | 10 | 400 | 0 | 0 | |
| Trichloroethene | 0.00206 | 0.00500 | 0.00232 | 0 | 89.0 | 10 | 400 | 0 | 0 | |
| Trichlorofluoromethane | 0.00232 | 0.0150 | 0.00232 | 0 | 99.8 | 10 | 400 | 0 | 0 | |
| Vinyl chloride | 0.00227 | 0.00500 | 0.00232 | 0 | 97.9 | 10 | 400 | 0 | 0 | |
| Total Xylenes | 0.00620 | 0.00500 | 0.00696 | 0 | 89.1 | 10 | 400 | 0 | 0 | |

| Sample ID: DCS2-107002 | Batch ID: 107002 | TestNo: SW8260D | | Units: | mg/Kg | | | | | |
|--------------------------------|-----------------------|--------------------------------------|-----------|---------|------------|-----------|-----------|------|----------|------|
| SampType: DCS2 | Run ID: GCMS1_220915A | Analysis Date: 9/15/2022 11:58:00 PM | | | Prep Date: | 9/15/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 0.00441 | 0.00500 | 0.00464 | 0 | 95.1 | 10 | 400 | 0 | 0 | |
| 1,1,1-Trichloroethane | 0.00448 | 0.00500 | 0.00464 | 0 | 96.4 | 10 | 400 | 0 | 0 | |
| 1,1,2,2-Tetrachloroethane | 0.00417 | 0.00500 | 0.00464 | 0 | 89.8 | 10 | 400 | 0 | 0 | |
| 1,1,2-Trichloroethane | 0.00442 | 0.00500 | 0.00464 | 0 | 95.2 | 10 | 400 | 0 | 0 | |
| 1,1,2-Trichlorotrifluoroethane | 0.00420 | 0.0150 | 0.00464 | 0 | 90.4 | 10 | 400 | 0 | 0 | |
| 1,1-Dichloroethane | 0.00461 | 0.00500 | 0.00464 | 0 | 99.3 | 10 | 400 | 0 | 0 | |

| | | | | | | |
|--------------------|----|---|-----|---------------------------------------|--|--|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor | | |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit | | |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits | | |
| | RL | Reporting Limit | S | Spike Recovery outside control limits | | |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAP certified | | |

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_220915A

| Sample ID: DCS2-107002 | Batch ID: 107002 | TestNo: SW8260D | | Units: | mg/Kg | | | | | |
|-----------------------------|-----------------------|--------------------------------------|-----------|---------|------------|-----------|-----------|------|----------|------|
| SampType: DCS2 | Run ID: GCMS1_220915A | Analysis Date: 9/15/2022 11:58:00 PM | | | Prep Date: | 9/15/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 0.00396 | 0.00500 | 0.00464 | 0 | 85.4 | 10 | 400 | 0 | 0 | |
| 1,1-Dichloropropene | 0.00428 | 0.00500 | 0.00464 | 0 | 92.1 | 10 | 400 | 0 | 0 | |
| 1,2,3-Trichlorobenzene | 0.00452 | 0.00500 | 0.00464 | 0 | 97.4 | 10 | 400 | 0 | 0 | |
| 1,2,3-Trichloropropane | 0.00384 | 0.00500 | 0.00464 | 0 | 82.8 | 10 | 400 | 0 | 0 | |
| 1,2,4-Trichlorobenzene | 0.00440 | 0.00500 | 0.00464 | 0 | 94.8 | 10 | 400 | 0 | 0 | |
| 1,2,4-Trimethylbenzene | 0.00407 | 0.00500 | 0.00464 | 0 | 87.8 | 10 | 400 | 0 | 0 | |
| 1,2-Dibromo-3-chloropropane | 0.00428 | 0.00500 | 0.00464 | 0 | 92.2 | 10 | 400 | 0 | 0 | |
| 1,2-Dibromoethane | 0.00443 | 0.00500 | 0.00464 | 0 | 95.6 | 10 | 400 | 0 | 0 | |
| 1,2-Dichlorobenzene | 0.00425 | 0.00500 | 0.00464 | 0 | 91.6 | 10 | 400 | 0 | 0 | |
| 1,2-Dichloroethane | 0.00427 | 0.00500 | 0.00464 | 0 | 92.0 | 10 | 400 | 0 | 0 | |
| 1,2-Dichloropropane | 0.00438 | 0.00500 | 0.00464 | 0 | 94.3 | 10 | 400 | 0 | 0 | |
| 1,3,5-Trimethylbenzene | 0.00398 | 0.00500 | 0.00464 | 0 | 85.7 | 10 | 400 | 0 | 0 | |
| 1,3-Dichlorobenzene | 0.00434 | 0.00500 | 0.00464 | 0 | 93.6 | 10 | 400 | 0 | 0 | |
| 1,3-Dichloropropane | 0.00428 | 0.00500 | 0.00464 | 0 | 92.2 | 10 | 400 | 0 | 0 | |
| 1,4-Dichlorobenzene | 0.00456 | 0.00500 | 0.00464 | 0 | 98.2 | 10 | 400 | 0 | 0 | |
| 1-Chlorohexane | 0.00514 | 0.00500 | 0.00464 | 0 | 111 | 10 | 400 | 0 | 0 | |
| 2,2-Dichloropropane | 0.00495 | 0.00500 | 0.00464 | 0 | 107 | 10 | 400 | 0 | 0 | |
| 2-Butanone | 0.0227 | 0.0150 | 0.0232 | 0 | 97.8 | 10 | 400 | 0 | 0 | |
| 2-Chlorotoluene | 0.00431 | 0.00500 | 0.00464 | 0 | 92.8 | 10 | 400 | 0 | 0 | |
| 2-Hexanone | 0.0216 | 0.0150 | 0.0232 | 0 | 93.0 | 10 | 400 | 0 | 0 | |
| 4-Chlorotoluene | 0.00421 | 0.00500 | 0.00464 | 0 | 90.7 | 10 | 400 | 0 | 0 | |
| 4-Methyl-2-pentanone | 0.0215 | 0.0150 | 0.0232 | 0 | 92.6 | 10 | 400 | 0 | 0 | |
| Acetone | 0.0191 | 0.0500 | 0.0232 | 0 | 82.2 | 10 | 400 | 0 | 0 | |
| Benzene | 0.00433 | 0.00500 | 0.00464 | 0 | 93.4 | 10 | 400 | 0 | 0 | |
| Bromobenzene | 0.00430 | 0.00500 | 0.00464 | 0 | 92.7 | 10 | 400 | 0 | 0 | |
| Bromochloromethane | 0.00461 | 0.00500 | 0.00464 | 0 | 99.4 | 10 | 400 | 0 | 0 | |
| Bromodichloromethane | 0.00438 | 0.00500 | 0.00464 | 0 | 94.5 | 10 | 400 | 0 | 0 | |
| Bromoform | 0.00396 | 0.00500 | 0.00464 | 0 | 85.4 | 10 | 400 | 0 | 0 | |
| Bromomethane | 0.00505 | 0.00500 | 0.00464 | 0 | 109 | 10 | 400 | 0 | 0 | |
| Carbon disulfide | 0.00348 | 0.0150 | 0.00464 | 0 | 75.1 | 10 | 400 | 0 | 0 | |
| Carbon tetrachloride | 0.00459 | 0.00500 | 0.00464 | 0 | 99.0 | 10 | 400 | 0 | 0 | |
| Chlorobenzene | 0.00448 | 0.00500 | 0.00464 | 0 | 96.5 | 10 | 400 | 0 | 0 | |
| Chloroethane | 0.00478 | 0.00500 | 0.00464 | 0 | 103 | 10 | 400 | 0 | 0 | |
| Chloroform | 0.00455 | 0.00500 | 0.00464 | 0 | 98.0 | 10 | 400 | 0 | 0 | |
| Chloromethane | 0.00477 | 0.00500 | 0.00464 | 0 | 103 | 10 | 400 | 0 | 0 | |
| cis-1,2-Dichloroethene | 0.00440 | 0.00500 | 0.00464 | 0 | 94.9 | 10 | 400 | 0 | 0 | |
| cis-1,3-Dichloropropene | 0.00417 | 0.00500 | 0.00464 | 0 | 89.8 | 10 | 400 | 0 | 0 | |
| Cyclohexane | 0.00508 | 0.0150 | 0.00464 | 0 | 110 | 10 | 400 | 0 | 0 | N |
| Dibromochloromethane | 0.00439 | 0.00500 | 0.00464 | 0 | 94.5 | 10 | 400 | 0 | 0 | |
| Dibromomethane | 0.00448 | 0.00500 | 0.00464 | 0 | 96.5 | 10 | 400 | 0 | 0 | |
| Dichlorodifluoromethane | 0.00359 | 0.00500 | 0.00464 | 0 | 77.3 | 10 | 400 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_220915A

| Sample ID: DCS2-107002 | Batch ID: 107002 | TestNo: SW8260D | | Units: | mg/Kg | | | | | |
|---------------------------|-----------------------|--------------------------------------|-----------|---------|------------|-----------|-----------|------|----------|------|
| SampType: DCS2 | Run ID: GCMS1_220915A | Analysis Date: 9/15/2022 11:58:00 PM | | | Prep Date: | 9/15/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Ethylbenzene | 0.00434 | 0.00500 | 0.00464 | 0 | 93.6 | 10 | 400 | 0 | 0 | 0 |
| Hexachlorobutadiene | 0.00434 | 0.00500 | 0.00464 | 0 | 93.6 | 10 | 400 | 0 | 0 | 0 |
| Isopropylbenzene | 0.00439 | 0.00500 | 0.00464 | 0 | 94.7 | 10 | 400 | 0 | 0 | 0 |
| m,p-Xylene | 0.00830 | 0.00500 | 0.00928 | 0 | 89.5 | 10 | 400 | 0 | 0 | 0 |
| Methyl Acetate | 0.00508 | 0.0150 | 0.00464 | 0 | 109 | 10 | 400 | 0 | 0 | 0 |
| Methyl tert-butyl ether | 0.00439 | 0.00500 | 0.00464 | 0 | 94.5 | 10 | 400 | 0 | 0 | 0 |
| Methylcyclohexane | 0.00489 | 0.0150 | 0.00464 | 0 | 105 | 10 | 400 | 0 | 0 | 0 |
| Methylene chloride | 0.00432 | 0.00500 | 0.00464 | 0 | 93.0 | 10 | 400 | 0 | 0 | 0 |
| Naphthalene | 0.00406 | 0.0150 | 0.00464 | 0 | 87.6 | 10 | 400 | 0 | 0 | 0 |
| n-Butylbenzene | 0.00421 | 0.00500 | 0.00464 | 0 | 90.7 | 10 | 400 | 0 | 0 | 0 |
| n-Propylbenzene | 0.00431 | 0.00500 | 0.00464 | 0 | 92.9 | 10 | 400 | 0 | 0 | 0 |
| o-Xylene | 0.00428 | 0.00500 | 0.00464 | 0 | 92.2 | 10 | 400 | 0 | 0 | 0 |
| p-Isopropyltoluene | 0.00397 | 0.00500 | 0.00464 | 0 | 85.6 | 10 | 400 | 0 | 0 | 0 |
| sec-Butylbenzene | 0.00420 | 0.00500 | 0.00464 | 0 | 90.4 | 10 | 400 | 0 | 0 | 0 |
| Styrene | 0.00386 | 0.00500 | 0.00464 | 0 | 83.2 | 10 | 400 | 0 | 0 | 0 |
| tert-Butylbenzene | 0.00422 | 0.00500 | 0.00464 | 0 | 90.9 | 10 | 400 | 0 | 0 | 0 |
| Tetrachloroethene | 0.00438 | 0.00500 | 0.00464 | 0 | 94.3 | 10 | 400 | 0 | 0 | 0 |
| Toluene | 0.00452 | 0.00500 | 0.00464 | 0 | 97.4 | 10 | 400 | 0 | 0 | 0 |
| trans-1,2-Dichloroethene | 0.00418 | 0.00500 | 0.00464 | 0 | 90.2 | 10 | 400 | 0 | 0 | 0 |
| trans-1,3-Dichloropropene | 0.00507 | 0.00500 | 0.00464 | 0 | 109 | 10 | 400 | 0 | 0 | 0 |
| Trichloroethene | 0.00407 | 0.00500 | 0.00464 | 0 | 87.7 | 10 | 400 | 0 | 0 | 0 |
| Trichlorofluoromethane | 0.00475 | 0.0150 | 0.00464 | 0 | 102 | 10 | 400 | 0 | 0 | 0 |
| Vinyl chloride | 0.00456 | 0.00500 | 0.00464 | 0 | 98.2 | 10 | 400 | 0 | 0 | 0 |
| Total Xylenes | 0.0126 | 0.00500 | 0.0139 | 0 | 90.4 | 10 | 400 | 0 | 0 | 0 |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_220922A

The QC data in batch 107106 applies to the following samples: 2209090-05A, 2209090-11A

| Sample ID: LCS-107106 | Batch ID: 107106 | TestNo: | SW8260D | | Units: | mg/Kg | | | | |
|--------------------------------|-----------------------|----------------|-----------------------|---------|------------|-----------|-----------|------|----------|------|
| SampType: LCS | Run ID: GCMS1_220922A | Analysis Date: | 9/22/2022 12:01:00 PM | | Prep Date: | 9/22/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 0.0228 | 0.00500 | 0.0232 | 0 | 98.1 | 74 | 125 | | | |
| 1,1,1-Trichloroethane | 0.0238 | 0.00500 | 0.0232 | 0 | 103 | 68 | 130 | | | |
| 1,1,2,2-Tetrachloroethane | 0.0214 | 0.00500 | 0.0232 | 0 | 92.3 | 59 | 140 | | | |
| 1,1,2-Trichloroethane | 0.0239 | 0.00500 | 0.0232 | 0 | 103 | 62 | 127 | | | |
| 1,1,2-Trichlorotrifluoroethane | 0.0212 | 0.0150 | 0.0232 | 0 | 91.5 | 70 | 130 | | | |
| 1,1-Dichloroethane | 0.0243 | 0.00500 | 0.0232 | 0 | 105 | 73 | 125 | | | |
| 1,1-Dichloroethene | 0.0215 | 0.00500 | 0.0232 | 0 | 92.7 | 65 | 136 | | | |
| 1,1-Dichloropropene | 0.0232 | 0.00500 | 0.0232 | 0 | 99.8 | 70 | 135 | | | |
| 1,2,3-Trichlorobenzene | 0.0229 | 0.00500 | 0.0232 | 0 | 98.5 | 62 | 133 | | | |
| 1,2,3-Trichloropropane | 0.0210 | 0.00500 | 0.0232 | 0 | 90.5 | 63 | 130 | | | |
| 1,2,4-Trichlorobenzene | 0.0219 | 0.00500 | 0.0232 | 0 | 94.5 | 65 | 131 | | | |
| 1,2,4-Trimethylbenzene | 0.0212 | 0.00500 | 0.0232 | 0 | 91.4 | 65 | 135 | | | |
| 1,2-Dibromo-3-chloropropane | 0.0229 | 0.00500 | 0.0232 | 0 | 98.8 | 49 | 135 | | | |
| 1,2-Dibromoethane | 0.0232 | 0.00500 | 0.0232 | 0 | 99.8 | 70 | 124 | | | |
| 1,2-Dichlorobenzene | 0.0211 | 0.00500 | 0.0232 | 0 | 91.2 | 74 | 120 | | | |
| 1,2-Dichloroethane | 0.0231 | 0.00500 | 0.0232 | 0 | 99.5 | 72 | 137 | | | |
| 1,2-Dichloropropane | 0.0231 | 0.00500 | 0.0232 | 0 | 99.7 | 71 | 120 | | | |
| 1,3,5-Trimethylbenzene | 0.0206 | 0.00500 | 0.0232 | 0 | 88.8 | 65 | 133 | | | |
| 1,3-Dichlorobenzene | 0.0213 | 0.00500 | 0.0232 | 0 | 91.8 | 72 | 124 | | | |
| 1,3-Dichloropropane | 0.0226 | 0.00500 | 0.0232 | 0 | 97.6 | 76 | 123 | | | |
| 1,4-Dichlorobenzene | 0.0213 | 0.00500 | 0.0232 | 0 | 91.9 | 72 | 125 | | | |
| 1-Chlorohexane | 0.0207 | 0.00500 | 0.0232 | 0 | 89.0 | 60 | 135 | | | |
| 2,2-Dichloropropane | 0.0268 | 0.00500 | 0.0232 | 0 | 116 | 67 | 134 | | | |
| 2-Butanone | 0.274 | 0.0150 | 0.232 | 0 | 118 | 60 | 135 | | | |
| 2-Chlorotoluene | 0.0210 | 0.00500 | 0.0232 | 0 | 90.5 | 69 | 128 | | | |
| 2-Hexanone | 0.268 | 0.0150 | 0.232 | 0 | 115 | 50 | 150 | | | |
| 4-Chlorotoluene | 0.0213 | 0.00500 | 0.0232 | 0 | 91.7 | 73 | 126 | | | |
| 4-Methyl-2-pentanone | 0.259 | 0.0150 | 0.232 | 0 | 112 | 60 | 135 | | | |
| Acetone | 0.295 | 0.0500 | 0.232 | 0 | 127 | 40 | 141 | | | |
| Benzene | 0.0232 | 0.00500 | 0.0232 | 0 | 100 | 75 | 125 | | | |
| Bromobenzene | 0.0206 | 0.00500 | 0.0232 | 0 | 89.0 | 66 | 121 | | | |
| Bromochloromethane | 0.0237 | 0.00500 | 0.0232 | 0 | 102 | 71 | 127 | | | |
| Bromodichloromethane | 0.0243 | 0.00500 | 0.0232 | 0 | 105 | 72 | 128 | | | |
| Bromoform | 0.0240 | 0.00500 | 0.0232 | 0 | 103 | 66 | 137 | | | |
| Bromomethane | 0.0268 | 0.00500 | 0.0232 | 0 | 115 | 45 | 141 | | | |
| Carbon disulfide | 0.0216 | 0.0150 | 0.0232 | 0 | 93.0 | 50 | 150 | | | |
| Carbon tetrachloride | 0.0247 | 0.00500 | 0.0232 | 0 | 107 | 67 | 133 | | | |
| Chlorobenzene | 0.0221 | 0.00500 | 0.0232 | 0 | 95.1 | 75 | 123 | | | |
| Chloroethane | 0.0246 | 0.00500 | 0.0232 | 0 | 106 | 41 | 141 | | | |
| Chloroform | 0.0241 | 0.00500 | 0.0232 | 0 | 104 | 72 | 124 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_220922A

| Sample ID: LCS-107106 | Batch ID: 107106 | TestNo: SW8260D | | Units: | mg/Kg | | | | | |
|-----------------------------|-----------------------|--------------------------------------|-----------|---------|----------------------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: GCMS1_220922A | Analysis Date: 9/22/2022 12:01:00 PM | | | Prep Date: 9/22/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloromethane | 0.0268 | 0.00500 | 0.0232 | 0 | 115 | 51 | 129 | | | |
| cis-1,2-Dichloroethene | 0.0236 | 0.00500 | 0.0232 | 0 | 102 | 67 | 125 | | | |
| cis-1,3-Dichloropropene | 0.0241 | 0.00500 | 0.0232 | 0 | 104 | 72 | 126 | | | |
| Cyclohexane | 0.0276 | 0.0150 | 0.0232 | 0 | 119 | 40 | 161 | | | N |
| Dibromochloromethane | 0.0239 | 0.00500 | 0.0232 | 0 | 103 | 66 | 130 | | | |
| Dibromomethane | 0.0246 | 0.00500 | 0.0232 | 0 | 106 | 73 | 128 | | | |
| Dichlorodifluoromethane | 0.0260 | 0.00500 | 0.0232 | 0 | 112 | 34 | 136 | | | |
| Ethylbenzene | 0.0223 | 0.00500 | 0.0232 | 0 | 96.3 | 75 | 125 | | | |
| Hexachlorobutadiene | 0.0209 | 0.00500 | 0.0232 | 0 | 90.0 | 53 | 142 | | | |
| Isopropylbenzene | 0.0224 | 0.00500 | 0.0232 | 0 | 96.3 | 77 | 129 | | | |
| m,p-Xylene | 0.0433 | 0.00500 | 0.0464 | 0 | 93.3 | 80 | 125 | | | |
| Methyl Acetate | 0.0268 | 0.0150 | 0.0232 | 0 | 116 | 50 | 150 | | | |
| Methyl tert-butyl ether | 0.0249 | 0.00500 | 0.0232 | 0 | 107 | 68 | 130 | | | |
| Methylcyclohexane | 0.0242 | 0.0150 | 0.0232 | 0 | 104 | 70 | 130 | | | |
| Methylene chloride | 0.0263 | 0.00500 | 0.0232 | 0 | 113 | 63 | 137 | | | |
| Naphthalene | 0.0225 | 0.0150 | 0.0232 | 0 | 97.1 | 51 | 135 | | | |
| n-Butylbenzene | 0.0215 | 0.00500 | 0.0232 | 0 | 92.8 | 65 | 138 | | | |
| n-Propylbenzene | 0.0216 | 0.00500 | 0.0232 | 0 | 93.0 | 63 | 135 | | | |
| o-Xylene | 0.0229 | 0.00500 | 0.0232 | 0 | 98.6 | 77 | 125 | | | |
| p-Isopropyltoluene | 0.0210 | 0.00500 | 0.0232 | 0 | 90.4 | 75 | 133 | | | |
| sec-Butylbenzene | 0.0210 | 0.00500 | 0.0232 | 0 | 90.5 | 63 | 132 | | | |
| Styrene | 0.0220 | 0.00500 | 0.0232 | 0 | 94.8 | 74 | 128 | | | |
| tert-Butylbenzene | 0.0210 | 0.00500 | 0.0232 | 0 | 90.7 | 65 | 132 | | | |
| Tetrachloroethene | 0.0215 | 0.00500 | 0.0232 | 0 | 92.6 | 67 | 139 | | | |
| Toluene | 0.0244 | 0.00500 | 0.0232 | 0 | 105 | 75 | 125 | | | |
| trans-1,2-Dichloroethene | 0.0229 | 0.00500 | 0.0232 | 0 | 98.6 | 66 | 134 | | | |
| trans-1,3-Dichloropropene | 0.0252 | 0.00500 | 0.0232 | 0 | 108 | 65 | 127 | | | |
| Trichloroethene | 0.0221 | 0.00500 | 0.0232 | 0 | 95.5 | 77 | 124 | | | |
| Trichlorofluoromethane | 0.0245 | 0.0150 | 0.0232 | 0 | 106 | 49 | 139 | | | |
| Vinyl chloride | 0.0248 | 0.00500 | 0.0232 | 0 | 107 | 58 | 126 | | | |
| Total Xylenes | 0.0662 | 0.00500 | 0.0696 | 0 | 95.1 | 75 | 125 | | | |
| Surr: 1,2-Dichloroethane-d4 | 50.0 | | 50.00 | | 100 | 52 | 149 | | | |
| Surr: 4-Bromofluorobenzene | 50.7 | | 50.00 | | 101 | 84 | 118 | | | |
| Surr: Dibromofluoromethane | 51.0 | | 50.00 | | 102 | 65 | 135 | | | |
| Surr: Toluene-d8 | 49.3 | | 50.00 | | 98.7 | 84 | 116 | | | |

| Sample ID: 2209090-11AMS | Batch ID: 107106 | TestNo: SW8260D | | Units: | mg/Kg-dry | | | | | |
|---------------------------|-----------------------|--------------------------------------|-----------|---------|----------------------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: GCMS1_220922A | Analysis Date: 9/22/2022 12:29:00 PM | | | Prep Date: 9/22/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 0.0203 | 0.00542 | 0.0252 | 0 | 80.7 | 74 | 125 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_220922A

| Sample ID: 2209090-11AMS | Batch ID: 107106 | TestNo: SW8260D | | Units: | mg/Kg-dry | | | | | |
|--------------------------------|-----------------------|--------------------------------------|-----------|---------|------------|-----------|-----------|------|----------|------|
| SampType: MS | Run ID: GCMS1_220922A | Analysis Date: 9/22/2022 12:29:00 PM | | | Prep Date: | 9/22/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane | 0.0207 | 0.00542 | 0.0252 | 0 | 82.2 | 68 | 130 | | | |
| 1,1,2,2-Tetrachloroethane | 0.0215 | 0.00542 | 0.0252 | 0 | 85.5 | 59 | 140 | | | |
| 1,1,2-Trichloroethane | 0.0237 | 0.00542 | 0.0252 | 0 | 94.1 | 62 | 127 | | | |
| 1,1,2-Trichlorotrifluoroethane | 0.0184 | 0.0163 | 0.0252 | 0 | 73.2 | 70 | 130 | | | |
| 1,1-Dichloroethane | 0.0216 | 0.00542 | 0.0252 | 0 | 85.7 | 73 | 125 | | | |
| 1,1-Dichloroethene | 0.0188 | 0.00542 | 0.0252 | 0 | 74.6 | 65 | 136 | | | |
| 1,1-Dichloropropene | 0.0203 | 0.00542 | 0.0252 | 0 | 80.8 | 70 | 135 | | | |
| 1,2,3-Trichlorobenzene | 0.0197 | 0.00542 | 0.0252 | 0 | 78.2 | 62 | 133 | | | |
| 1,2,3-Trichloropropane | 0.0220 | 0.00542 | 0.0252 | 0 | 87.6 | 63 | 130 | | | |
| 1,2,4-Trichlorobenzene | 0.0183 | 0.00542 | 0.0252 | 0 | 72.7 | 65 | 131 | | | |
| 1,2,4-Trimethylbenzene | 0.0181 | 0.00542 | 0.0252 | 0 | 71.8 | 65 | 135 | | | |
| 1,2-Dibromo-3-chloropropane | 0.0264 | 0.00542 | 0.0252 | 0 | 105 | 49 | 135 | | | |
| 1,2-Dibromoethane | 0.0227 | 0.00542 | 0.0252 | 0 | 90.4 | 70 | 124 | | | |
| 1,2-Dichlorobenzene | 0.0186 | 0.00542 | 0.0252 | 0 | 73.8 | 74 | 120 | | | |
| 1,2-Dichloroethane | 0.0217 | 0.00542 | 0.0252 | 0 | 86.3 | 72 | 137 | | | |
| 1,2-Dichloropropane | 0.0207 | 0.00542 | 0.0252 | 0 | 82.2 | 71 | 120 | | | |
| 1,3,5-Trimethylbenzene | 0.0173 | 0.00542 | 0.0252 | 0 | 68.9 | 65 | 133 | | | |
| 1,3-Dichlorobenzene | 0.0182 | 0.00542 | 0.0252 | 0 | 72.4 | 72 | 124 | | | |
| 1,3-Dichloropropane | 0.0215 | 0.00542 | 0.0252 | 0 | 85.5 | 76 | 123 | | | |
| 1,4-Dichlorobenzene | 0.0182 | 0.00542 | 0.0252 | 0 | 72.3 | 72 | 125 | | | |
| 1-Chlorohexane | 0.0182 | 0.00542 | 0.0252 | 0 | 72.4 | 60 | 135 | | | |
| 2,2-Dichloropropane | 0.0234 | 0.00542 | 0.0252 | 0 | 92.8 | 67 | 134 | | | |
| 2-Butanone | 0.336 | 0.0163 | 0.252 | 0 | 134 | 40 | 135 | | | |
| 2-Chlorotoluene | 0.0180 | 0.00542 | 0.0252 | 0 | 71.5 | 69 | 128 | | | |
| 2-Hexanone | 0.315 | 0.0163 | 0.252 | 0 | 125 | 50 | 150 | | | |
| 4-Chlorotoluene | 0.0178 | 0.00542 | 0.0252 | 0 | 70.9 | 73 | 126 | | | S |
| 4-Methyl-2-pentanone | 0.293 | 0.0163 | 0.252 | 0 | 117 | 47 | 147 | | | |
| Acetone | 0.365 | 0.0542 | 0.252 | 0 | 145 | 40 | 141 | | | S |
| Benzene | 0.0205 | 0.00542 | 0.0252 | 0 | 81.5 | 73 | 126 | | | |
| Bromobenzene | 0.0184 | 0.00542 | 0.0252 | 0 | 73.2 | 66 | 121 | | | |
| Bromochloromethane | 0.0222 | 0.00542 | 0.0252 | 0 | 88.1 | 71 | 127 | | | |
| Bromodichloromethane | 0.0217 | 0.00542 | 0.0252 | 0 | 86.3 | 72 | 128 | | | |
| Bromoform | 0.0236 | 0.00542 | 0.0252 | 0 | 93.9 | 66 | 137 | | | |
| Bromomethane | 0.0238 | 0.00542 | 0.0252 | 0 | 94.5 | 45 | 141 | | | |
| Carbon disulfide | 0.0188 | 0.0163 | 0.0252 | 0 | 74.6 | 50 | 150 | | | |
| Carbon tetrachloride | 0.0214 | 0.00542 | 0.0252 | 0 | 85.1 | 67 | 133 | | | |
| Chlorobenzene | 0.0190 | 0.00542 | 0.0252 | 0 | 75.5 | 75 | 123 | | | |
| Chloroethane | 0.0225 | 0.00542 | 0.0252 | 0 | 89.3 | 41 | 141 | | | |
| Chloroform | 0.0214 | 0.00542 | 0.0252 | 0 | 85.1 | 72 | 124 | | | |
| Chloromethane | 0.0239 | 0.00542 | 0.0252 | 0 | 95.0 | 51 | 129 | | | |
| cis-1,2-Dichloroethene | 0.0209 | 0.00542 | 0.0252 | 0 | 83.2 | 67 | 125 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_220922A

| Sample ID: 2209090-11AMS | Batch ID: 107106 | TestNo: SW8260D | | Units: | mg/Kg-dry | | | | | |
|-----------------------------|-----------------------|--------------------------------------|-----------|---------|------------|-----------|-----------|------|----------|------|
| SampType: MS | Run ID: GCMS1_220922A | Analysis Date: 9/22/2022 12:29:00 PM | | | Prep Date: | 9/22/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| cis-1,3-Dichloropropene | 0.0218 | 0.00542 | 0.0252 | 0 | 86.7 | 72 | 126 | | | |
| Cyclohexane | 0.0248 | 0.0163 | 0.0252 | 0 | 98.4 | 40 | 161 | | | N |
| Dibromochloromethane | 0.0224 | 0.00542 | 0.0252 | 0 | 89.1 | 66 | 130 | | | |
| Dibromomethane | 0.0239 | 0.00542 | 0.0252 | 0 | 94.9 | 73 | 128 | | | |
| Dichlorodifluoromethane | 0.0231 | 0.00542 | 0.0252 | 0 | 91.9 | 34 | 136 | | | |
| Ethylbenzene | 0.0196 | 0.00542 | 0.0252 | 0 | 78.0 | 74 | 127 | | | |
| Hexachlorobutadiene | 0.0176 | 0.00542 | 0.0252 | 0 | 69.8 | 53 | 142 | | | |
| Isopropylbenzene | 0.0191 | 0.00542 | 0.0252 | 0 | 75.8 | 77 | 129 | | | S |
| m,p-Xylene | 0.0375 | 0.00542 | 0.0503 | 0 | 74.4 | 79 | 126 | | | S |
| Methyl Acetate | 0.0318 | 0.0163 | 0.0252 | 0 | 126 | 50 | 150 | | | |
| Methyl tert-butyl ether | 0.0240 | 0.00542 | 0.0252 | 0 | 95.5 | 50 | 135 | | | |
| Methylcyclohexane | 0.0218 | 0.0163 | 0.0252 | 0 | 86.5 | 70 | 130 | | | |
| Methylene chloride | 0.0227 | 0.00542 | 0.0252 | 0 | 90.3 | 63 | 137 | | | |
| Naphthalene | 0.0225 | 0.0163 | 0.0252 | 0 | 89.5 | 51 | 135 | | | |
| n-Butylbenzene | 0.0178 | 0.00542 | 0.0252 | 0 | 70.8 | 65 | 138 | | | |
| n-Propylbenzene | 0.0183 | 0.00542 | 0.0252 | 0 | 72.7 | 63 | 135 | | | |
| o-Xylene | 0.0195 | 0.00542 | 0.0252 | 0 | 77.6 | 77 | 125 | | | |
| p-Isopropyltoluene | 0.0174 | 0.00542 | 0.0252 | 0 | 69.3 | 75 | 133 | | | S |
| sec-Butylbenzene | 0.0177 | 0.00542 | 0.0252 | 0 | 70.4 | 63 | 132 | | | |
| Styrene | 0.0187 | 0.00542 | 0.0252 | 0 | 74.2 | 74 | 128 | | | |
| tert-Butylbenzene | 0.0181 | 0.00542 | 0.0252 | 0 | 72.1 | 65 | 132 | | | |
| Tetrachloroethene | 0.0183 | 0.00542 | 0.0252 | 0 | 72.9 | 67 | 139 | | | |
| Toluene | 0.0211 | 0.00542 | 0.0252 | 0 | 83.8 | 71 | 127 | | | |
| trans-1,2-Dichloroethene | 0.0205 | 0.00542 | 0.0252 | 0 | 81.3 | 66 | 134 | | | |
| trans-1,3-Dichloropropene | 0.0238 | 0.00542 | 0.0252 | 0 | 94.5 | 65 | 127 | | | |
| Trichloroethene | 0.0200 | 0.00542 | 0.0252 | 0 | 79.7 | 77 | 124 | | | |
| Trichlorofluoromethane | 0.0223 | 0.0163 | 0.0252 | 0 | 88.7 | 49 | 139 | | | |
| Vinyl chloride | 0.0221 | 0.00542 | 0.0252 | 0 | 87.9 | 58 | 126 | | | |
| Total Xylenes | 0.0570 | 0.00542 | 0.0755 | 0 | 75.5 | 75 | 125 | | | |
| Surr: 1,2-Dichloroethane-d4 | 58.0 | | 54.24 | | 107 | 52 | 149 | | | |
| Surr: 4-Bromofluorobenzene | 54.7 | | 54.24 | | 101 | 84 | 118 | | | |
| Surr: Dibromofluoromethane | 55.6 | | 54.24 | | 103 | 65 | 135 | | | |
| Surr: Toluene-d8 | 53.3 | | 54.24 | | 98.3 | 84 | 116 | | | |

| Sample ID: 2209090-11AMSD | Batch ID: 107106 | TestNo: SW8260D | | Units: | mg/Kg-dry | | | | | |
|---------------------------|-----------------------|--------------------------------------|-----------|---------|------------|-----------|-----------|------|----------|------|
| SampType: MSD | Run ID: GCMS1_220922A | Analysis Date: 9/22/2022 12:58:00 PM | | | Prep Date: | 9/22/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 0.0182 | 0.00535 | 0.0248 | 0 | 73.3 | 74 | 125 | 10.9 | 30 | S |
| 1,1,1-Trichloroethane | 0.0187 | 0.00535 | 0.0248 | 0 | 75.4 | 68 | 130 | 9.88 | 30 | |
| 1,1,2,2-Tetrachloroethane | 0.0201 | 0.00535 | 0.0248 | 0 | 80.8 | 59 | 140 | 6.97 | 30 | |

| | | | | | | |
|--------------------|----|---|-----|---------------------------------------|--|--|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor | | |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit | | |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits | | |
| | RL | Reporting Limit | S | Spike Recovery outside control limits | | |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAP certified | | |

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_220922A

| Sample ID: 2209090-11AMSD | Batch ID: 107106 | TestNo: SW8260D | | Units: mg/Kg-dry | | | | | | |
|--------------------------------|-----------------------|--------------------------------------|-----------|------------------|----------------------|----------|-----------|------|----------|------|
| SampType: MSD | Run ID: GCMS1_220922A | Analysis Date: 9/22/2022 12:58:00 PM | | | Prep Date: 9/22/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,2-Trichloroethane | 0.0211 | 0.00535 | 0.0248 | 0 | 84.9 | 62 | 127 | 11.6 | 30 | |
| 1,1,2-Trichlorotrifluoroethane | 0.0166 | 0.0161 | 0.0248 | 0 | 66.8 | 70 | 130 | 10.4 | 30 | S |
| 1,1-Dichloroethane | 0.0191 | 0.00535 | 0.0248 | 0 | 77.0 | 73 | 125 | 12.0 | 30 | |
| 1,1-Dichloroethene | 0.0168 | 0.00535 | 0.0248 | 0 | 67.8 | 65 | 136 | 10.9 | 30 | |
| 1,1-Dichloropropene | 0.0179 | 0.00535 | 0.0248 | 0 | 72.0 | 70 | 135 | 12.7 | 30 | |
| 1,2,3-Trichlorobenzene | 0.0177 | 0.00535 | 0.0248 | 0 | 71.2 | 62 | 133 | 10.7 | 30 | |
| 1,2,3-Trichloropropane | 0.0206 | 0.00535 | 0.0248 | 0 | 82.8 | 63 | 130 | 6.98 | 30 | |
| 1,2,4-Trichlorobenzene | 0.0159 | 0.00535 | 0.0248 | 0 | 64.1 | 65 | 131 | 13.8 | 30 | S |
| 1,2,4-Trimethylbenzene | 0.0161 | 0.00535 | 0.0248 | 0 | 64.6 | 65 | 135 | 11.8 | 30 | |
| 1,2-Dibromo-3-chloropropane | 0.0243 | 0.00535 | 0.0248 | 0 | 97.6 | 49 | 135 | 8.41 | 30 | |
| 1,2-Dibromoethane | 0.0208 | 0.00535 | 0.0248 | 0 | 83.8 | 70 | 124 | 8.82 | 30 | |
| 1,2-Dichlorobenzene | 0.0168 | 0.00535 | 0.0248 | 0 | 67.6 | 74 | 120 | 10.0 | 30 | S |
| 1,2-Dichloroethane | 0.0198 | 0.00535 | 0.0248 | 0 | 79.6 | 72 | 137 | 9.42 | 30 | |
| 1,2-Dichloropropane | 0.0188 | 0.00535 | 0.0248 | 0 | 75.8 | 71 | 120 | 9.40 | 30 | |
| 1,3,5-Trimethylbenzene | 0.0156 | 0.00535 | 0.0248 | 0 | 62.9 | 65 | 133 | 10.4 | 30 | S |
| 1,3-Dichlorobenzene | 0.0165 | 0.00535 | 0.0248 | 0 | 66.3 | 72 | 124 | 10.1 | 30 | S |
| 1,3-Dichloropropane | 0.0195 | 0.00535 | 0.0248 | 0 | 78.6 | 76 | 123 | 9.74 | 30 | |
| 1,4-Dichlorobenzene | 0.0163 | 0.00535 | 0.0248 | 0 | 65.6 | 72 | 125 | 11.0 | 30 | S |
| 1-Chlorohexane | 0.0166 | 0.00535 | 0.0248 | 0 | 66.7 | 60 | 135 | 9.42 | 30 | |
| 2,2-Dichloropropane | 0.0205 | 0.00535 | 0.0248 | 0 | 82.4 | 67 | 134 | 13.2 | 30 | |
| 2-Butanone | 0.302 | 0.0161 | 0.248 | 0 | 122 | 40 | 135 | 10.8 | 30 | |
| 2-Chlorotoluene | 0.0161 | 0.00535 | 0.0248 | 0 | 64.7 | 69 | 128 | 11.3 | 30 | S |
| 2-Hexanone | 0.292 | 0.0161 | 0.248 | 0 | 118 | 50 | 150 | 7.41 | 30 | |
| 4-Chlorotoluene | 0.0161 | 0.00535 | 0.0248 | 0 | 64.7 | 73 | 126 | 10.4 | 30 | |
| 4-Methyl-2-pentanone | 0.271 | 0.0161 | 0.248 | 0 | 109 | 47 | 147 | 7.86 | 30 | |
| Acetone | 0.329 | 0.0535 | 0.248 | 0 | 133 | 40 | 141 | 10.3 | 30 | |
| Benzene | 0.0182 | 0.00535 | 0.0248 | 0 | 73.4 | 73 | 126 | 11.7 | 30 | |
| Bromobenzene | 0.0165 | 0.00535 | 0.0248 | 0 | 66.3 | 66 | 121 | 11.3 | 30 | |
| Bromochloromethane | 0.0196 | 0.00535 | 0.0248 | 0 | 79.1 | 71 | 127 | 12.1 | 30 | |
| Bromodichloromethane | 0.0195 | 0.00535 | 0.0248 | 0 | 78.7 | 72 | 128 | 10.5 | 30 | |
| Bromoform | 0.0210 | 0.00535 | 0.0248 | 0 | 84.5 | 66 | 137 | 11.8 | 30 | |
| Bromomethane | 0.0223 | 0.00535 | 0.0248 | 0 | 89.7 | 45 | 141 | 6.59 | 30 | |
| Carbon disulfide | 0.0169 | 0.0161 | 0.0248 | 0 | 67.8 | 50 | 150 | 10.8 | 30 | |
| Carbon tetrachloride | 0.0190 | 0.00535 | 0.0248 | 0 | 76.3 | 67 | 133 | 12.2 | 30 | |
| Chlorobenzene | 0.0174 | 0.00535 | 0.0248 | 0 | 69.8 | 75 | 123 | 9.04 | 30 | S |
| Chloroethane | 0.0200 | 0.00535 | 0.0248 | 0 | 80.6 | 41 | 141 | 11.5 | 30 | |
| Chloroform | 0.0190 | 0.00535 | 0.0248 | 0 | 76.7 | 72 | 124 | 11.7 | 30 | |
| Chloromethane | 0.0214 | 0.00535 | 0.0248 | 0 | 86.1 | 51 | 129 | 11.1 | 30 | |
| cis-1,2-Dichloroethene | 0.0183 | 0.00535 | 0.0248 | 0 | 73.7 | 67 | 125 | 13.4 | 30 | |
| cis-1,3-Dichloropropene | 0.0191 | 0.00535 | 0.0248 | 0 | 76.7 | 72 | 126 | 13.4 | 30 | |
| Cyclohexane | 0.0218 | 0.0161 | 0.0248 | 0 | 87.7 | 40 | 161 | 12.8 | 30 | N |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_220922A

| Sample ID: 2209090-11AMSD | Batch ID: 107106 | TestNo: SW8260D | | Units: mg/Kg-dry | | | | | | |
|-----------------------------|-----------------------|--------------------------------------|-----------|------------------|----------------------|----------|-----------|------|----------|------|
| SampType: MSD | Run ID: GCMS1_220922A | Analysis Date: 9/22/2022 12:58:00 PM | | | Prep Date: 9/22/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dibromochloromethane | 0.0205 | 0.00535 | 0.0248 | 0 | 82.7 | 66 | 130 | 8.82 | 30 | |
| Dibromomethane | 0.0215 | 0.00535 | 0.0248 | 0 | 86.4 | 73 | 128 | 10.7 | 30 | |
| Dichlorodifluoromethane | 0.0207 | 0.00535 | 0.0248 | 0 | 83.2 | 34 | 136 | 11.2 | 30 | |
| Ethylbenzene | 0.0177 | 0.00535 | 0.0248 | 0 | 71.2 | 74 | 127 | 10.3 | 30 | S |
| Hexachlorobutadiene | 0.0149 | 0.00535 | 0.0248 | 0 | 59.8 | 53 | 142 | 16.6 | 30 | |
| Isopropylbenzene | 0.0172 | 0.00535 | 0.0248 | 0 | 69.2 | 77 | 129 | 10.5 | 30 | S |
| m,p-Xylene | 0.0333 | 0.00535 | 0.0497 | 0 | 67.0 | 79 | 126 | 11.7 | 30 | S |
| Methyl Acetate | 0.0288 | 0.0161 | 0.0248 | 0 | 116 | 50 | 150 | 10.1 | 30 | |
| Methyl tert-butyl ether | 0.0217 | 0.00535 | 0.0248 | 0 | 87.3 | 50 | 135 | 10.3 | 30 | |
| Methylcyclohexane | 0.0192 | 0.0161 | 0.0248 | 0 | 77.3 | 70 | 130 | 12.5 | 30 | |
| Methylene chloride | 0.0199 | 0.00535 | 0.0248 | 0 | 80.1 | 63 | 137 | 13.2 | 30 | |
| Naphthalene | 0.0204 | 0.0161 | 0.0248 | 0 | 82.3 | 51 | 135 | 9.69 | 30 | |
| n-Butylbenzene | 0.0159 | 0.00535 | 0.0248 | 0 | 64.1 | 65 | 138 | 11.2 | 30 | S |
| n-Propylbenzene | 0.0164 | 0.00535 | 0.0248 | 0 | 65.9 | 63 | 135 | 11.1 | 30 | |
| o-Xylene | 0.0175 | 0.00535 | 0.0248 | 0 | 70.4 | 77 | 125 | 10.9 | 30 | S |
| p-Isopropyltoluene | 0.0157 | 0.00535 | 0.0248 | 0 | 63.1 | 75 | 133 | 10.7 | 30 | S |
| sec-Butylbenzene | 0.0159 | 0.00535 | 0.0248 | 0 | 64.0 | 63 | 132 | 10.8 | 30 | |
| Styrene | 0.0170 | 0.00535 | 0.0248 | 0 | 68.4 | 74 | 128 | 9.39 | 30 | S |
| tert-Butylbenzene | 0.0161 | 0.00535 | 0.0248 | 0 | 64.8 | 65 | 132 | 11.9 | 30 | |
| Tetrachloroethene | 0.0169 | 0.00535 | 0.0248 | 0 | 68.0 | 67 | 139 | 8.25 | 30 | |
| Toluene | 0.0189 | 0.00535 | 0.0248 | 0 | 76.0 | 71 | 127 | 11.1 | 30 | |
| trans-1,2-Dichloroethene | 0.0181 | 0.00535 | 0.0248 | 0 | 72.9 | 66 | 134 | 12.2 | 30 | |
| trans-1,3-Dichloropropene | 0.0212 | 0.00535 | 0.0248 | 0 | 85.2 | 65 | 127 | 11.7 | 30 | |
| Trichloroethene | 0.0178 | 0.00535 | 0.0248 | 0 | 71.8 | 77 | 124 | 11.6 | 30 | S |
| Trichlorofluoromethane | 0.0200 | 0.0161 | 0.0248 | 0 | 80.6 | 49 | 139 | 10.8 | 30 | |
| Vinyl chloride | 0.0199 | 0.00535 | 0.0248 | 0 | 80.2 | 58 | 126 | 10.4 | 30 | |
| Total Xylenes | 0.0508 | 0.00535 | 0.0745 | 0 | 68.2 | 75 | 125 | 11.5 | 30 | S |
| Surr: 1,2-Dichloroethane-d4 | 56.3 | | 53.54 | | 105 | 52 | 149 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 53.8 | | 53.54 | | 100 | 84 | 118 | 0 | 0 | |
| Surr: Dibromofluoromethane | 53.4 | | 53.54 | | 99.7 | 65 | 135 | 0 | 0 | |
| Surr: Toluene-d8 | 52.5 | | 53.54 | | 98.1 | 84 | 116 | 0 | 0 | |

| Sample ID: MB-107106 | Batch ID: 107106 | TestNo: SW8260D | | Units: mg/Kg | | | | | | |
|--------------------------------|-----------------------|-------------------------------------|-----------|--------------|----------------------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: GCMS1_220922A | Analysis Date: 9/22/2022 1:54:00 PM | | | Prep Date: 9/22/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | <0.00100 | 0.00500 | | | | | | | | |
| 1,1,1-Trichloroethane | <0.00100 | 0.00500 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | <0.00100 | 0.00500 | | | | | | | | |
| 1,1,2-Trichloroethane | <0.00100 | 0.00500 | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | <0.00500 | 0.0150 | | | | | | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_220922A

| Sample ID: MB-107106 | Batch ID: 107106 | TestNo: SW8260D | Units: mg/Kg | | | | | | | |
|-----------------------------|-----------------------|-------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: GCMS1_220922A | Analysis Date: 9/22/2022 1:54:00 PM | Prep Date: 9/22/2022 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethane | <0.00100 | 0.00500 | | | | | | | | |
| 1,1-Dichloroethylene | <0.00100 | 0.00500 | | | | | | | | |
| 1,1-Dichloropropene | <0.00100 | 0.00500 | | | | | | | | |
| 1,2,3-Trichlorobenzene | <0.00100 | 0.00500 | | | | | | | | |
| 1,2,3-Trichloropropane | <0.00100 | 0.00500 | | | | | | | | |
| 1,2,4-Trichlorobenzene | <0.00100 | 0.00500 | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.00100 | 0.00500 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | <0.00100 | 0.00500 | | | | | | | | |
| 1,2-Dibromoethane | <0.00100 | 0.00500 | | | | | | | | |
| 1,2-Dichlorobenzene | <0.00100 | 0.00500 | | | | | | | | |
| 1,2-Dichloroethane | <0.00100 | 0.00500 | | | | | | | | |
| 1,2-Dichloropropene | <0.00100 | 0.00500 | | | | | | | | |
| 1,3,5-Trimethylbenzene | <0.00100 | 0.00500 | | | | | | | | |
| 1,3-Dichlorobenzene | <0.00100 | 0.00500 | | | | | | | | |
| 1,3-Dichloropropane | <0.00100 | 0.00500 | | | | | | | | |
| 1,4-Dichlorobenzene | <0.00100 | 0.00500 | | | | | | | | |
| 1-Chlorohexane | <0.00100 | 0.00500 | | | | | | | | |
| 2,2-Dichloropropane | <0.00100 | 0.00500 | | | | | | | | |
| 2-Butanone | <0.00500 | 0.0150 | | | | | | | | |
| 2-Chlorotoluene | <0.00100 | 0.00500 | | | | | | | | |
| 2-Hexanone | <0.00500 | 0.0150 | | | | | | | | |
| 4-Chlorotoluene | <0.00100 | 0.00500 | | | | | | | | |
| 4-Methyl-2-pentanone | <0.00500 | 0.0150 | | | | | | | | |
| Acetone | <0.0150 | 0.0500 | | | | | | | | |
| Benzene | <0.00100 | 0.00500 | | | | | | | | |
| Bromobenzene | <0.00100 | 0.00500 | | | | | | | | |
| Bromochloromethane | <0.00100 | 0.00500 | | | | | | | | |
| Bromodichloromethane | <0.00100 | 0.00500 | | | | | | | | |
| Bromoform | <0.00100 | 0.00500 | | | | | | | | |
| Bromomethane | <0.00100 | 0.00500 | | | | | | | | |
| Carbon disulfide | <0.00500 | 0.0150 | | | | | | | | |
| Carbon tetrachloride | <0.00100 | 0.00500 | | | | | | | | |
| Chlorobenzene | <0.00100 | 0.00500 | | | | | | | | |
| Chloroethane | <0.00100 | 0.00500 | | | | | | | | |
| Chloroform | <0.00100 | 0.00500 | | | | | | | | |
| Chloromethane | <0.00100 | 0.00500 | | | | | | | | |
| cis-1,2-Dichloroethylene | <0.00100 | 0.00500 | | | | | | | | |
| cis-1,3-Dichloropropene | <0.00100 | 0.00500 | | | | | | | | |
| Cyclohexane | <0.00500 | 0.0150 | | | | | | | | N |
| Dibromochloromethane | <0.00100 | 0.00500 | | | | | | | | |
| Dibromomethane | <0.00100 | 0.00500 | | | | | | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_220922A

| Sample ID: | MB-107106 | Batch ID: | 107106 | TestNo: | SW8260D | Units: | mg/Kg | | | | |
|-----------------------------|-----------|-----------|---------------|----------------|----------------------|------------|-----------|-----------|------|----------|------|
| SampType: | MBLK | Run ID: | GCMS1_220922A | Analysis Date: | 9/22/2022 1:54:00 PM | Prep Date: | 9/22/2022 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane | | <0.00100 | 0.00500 | | | | | | | | |
| Ethylbenzene | | <0.00100 | 0.00500 | | | | | | | | |
| Hexachlorobutadiene | | <0.00100 | 0.00500 | | | | | | | | |
| Isopropylbenzene | | <0.00100 | 0.00500 | | | | | | | | |
| m,p-Xylene | | <0.00100 | 0.00500 | | | | | | | | |
| Methyl Acetate | | <0.00500 | 0.0150 | | | | | | | | |
| Methyl tert-butyl ether | | <0.00100 | 0.00500 | | | | | | | | |
| Methylcyclohexane | | <0.00500 | 0.0150 | | | | | | | | |
| Methylene chloride | | <0.00500 | 0.00500 | | | | | | | | |
| Naphthalene | | <0.00500 | 0.0150 | | | | | | | | |
| n-Butylbenzene | | <0.00100 | 0.00500 | | | | | | | | |
| n-Propylbenzene | | <0.00100 | 0.00500 | | | | | | | | |
| o-Xylene | | <0.00100 | 0.00500 | | | | | | | | |
| p-Isopropyltoluene | | <0.00100 | 0.00500 | | | | | | | | |
| sec-Butylbenzene | | <0.00100 | 0.00500 | | | | | | | | |
| Styrene | | <0.00100 | 0.00500 | | | | | | | | |
| tert-Butylbenzene | | <0.00100 | 0.00500 | | | | | | | | |
| Tetrachloroethene | | <0.00100 | 0.00500 | | | | | | | | |
| Toluene | | 0.00110 | 0.00500 | | | | | | | | |
| trans-1,2-Dichloroethene | | <0.00100 | 0.00500 | | | | | | | | |
| trans-1,3-Dichloropropene | | <0.00100 | 0.00500 | | | | | | | | |
| Trichloroethene | | <0.00100 | 0.00500 | | | | | | | | |
| Trichlorofluoromethane | | <0.00500 | 0.0150 | | | | | | | | |
| Vinyl chloride | | <0.00100 | 0.00500 | | | | | | | | |
| Total Xylenes | | <0.00100 | 0.00500 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | | 46.4 | | 50.00 | | 92.9 | 52 | 149 | | | |
| Surr: 4-Bromofluorobenzene | | 51.4 | | 50.00 | | 103 | 84 | 118 | | | |
| Surr: Dibromofluoromethane | | 49.7 | | 50.00 | | 99.4 | 65 | 135 | | | |
| Surr: Toluene-d8 | | 52.0 | | 50.00 | | 104 | 84 | 116 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_220922A

| Sample ID: ICV-220922 | Batch ID: R123170 | TestNo: SW8260D | Units: mg/Kg | | | | | | | |
|--------------------------------|-----------------------|---|--------------|---------|------|----------|-----------|------|----------|------|
| SampType: ICV | Run ID: GCMS1_220922A | Analysis Date: 9/22/2022 11:33:00 AM Prep Date: | | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 0.0454 | 0.00500 | 0.0464 | 0 | 97.8 | 70 | 130 | | | |
| 1,1,1-Trichloroethane | 0.0453 | 0.00500 | 0.0464 | 0 | 97.6 | 70 | 130 | | | |
| 1,1,2,2-Tetrachloroethane | 0.0412 | 0.00500 | 0.0464 | 0 | 88.7 | 70 | 130 | | | |
| 1,1,2-Trichloroethane | 0.0459 | 0.00500 | 0.0464 | 0 | 98.9 | 70 | 130 | | | |
| 1,1,2-Trichlorotrifluoroethane | 0.0398 | 0.0150 | 0.0464 | 0 | 85.8 | 70 | 130 | | | |
| 1,1-Dichloroethane | 0.0458 | 0.00500 | 0.0464 | 0 | 98.6 | 70 | 130 | | | |
| 1,1-Dichloroethene | 0.0404 | 0.00500 | 0.0464 | 0 | 87.0 | 70 | 130 | | | |
| 1,1-Dichloropropene | 0.0447 | 0.00500 | 0.0464 | 0 | 96.3 | 70 | 130 | | | |
| 1,2,3-Trichlorobenzene | 0.0448 | 0.00500 | 0.0464 | 0 | 96.5 | 70 | 130 | | | |
| 1,2,3-Trichloropropane | 0.0408 | 0.00500 | 0.0464 | 0 | 87.9 | 70 | 130 | | | |
| 1,2,4-Trichlorobenzene | 0.0442 | 0.00500 | 0.0464 | 0 | 95.3 | 70 | 130 | | | |
| 1,2,4-Trimethylbenzene | 0.0437 | 0.00500 | 0.0464 | 0 | 94.2 | 70 | 130 | | | |
| 1,2-Dibromo-3-chloropropane | 0.0427 | 0.00500 | 0.0464 | 0 | 92.1 | 70 | 130 | | | |
| 1,2-Dibromoethane | 0.0444 | 0.00500 | 0.0464 | 0 | 95.7 | 70 | 130 | | | |
| 1,2-Dichlorobenzene | 0.0421 | 0.00500 | 0.0464 | 0 | 90.8 | 70 | 130 | | | |
| 1,2-Dichloroethane | 0.0439 | 0.00500 | 0.0464 | 0 | 94.6 | 70 | 130 | | | |
| 1,2-Dichloropropane | 0.0445 | 0.00500 | 0.0464 | 0 | 95.9 | 70 | 130 | | | |
| 1,3,5-Trimethylbenzene | 0.0418 | 0.00500 | 0.0464 | 0 | 90.1 | 70 | 130 | | | |
| 1,3-Dichlorobenzene | 0.0432 | 0.00500 | 0.0464 | 0 | 93.2 | 70 | 130 | | | |
| 1,3-Dichloropropane | 0.0437 | 0.00500 | 0.0464 | 0 | 94.2 | 70 | 130 | | | |
| 1,4-Dichlorobenzene | 0.0426 | 0.00500 | 0.0464 | 0 | 91.8 | 70 | 130 | | | |
| 1-Chlorohexane | 0.0397 | 0.00500 | 0.0464 | 0 | 85.5 | 70 | 130 | | | |
| 2,2-Dichloropropane | 0.0517 | 0.00500 | 0.0464 | 0 | 111 | 70 | 130 | | | |
| 2-Butanone | 0.510 | 0.0150 | 0.464 | 0 | 110 | 70 | 130 | | | |
| 2-Chlorotoluene | 0.0416 | 0.00500 | 0.0464 | 0 | 89.6 | 70 | 130 | | | |
| 2-Hexanone | 0.520 | 0.0150 | 0.464 | 0 | 112 | 70 | 130 | | | |
| 4-Chlorotoluene | 0.0426 | 0.00500 | 0.0464 | 0 | 91.9 | 70 | 130 | | | |
| 4-Methyl-2-pentanone | 0.507 | 0.0150 | 0.464 | 0 | 109 | 70 | 130 | | | |
| Acetone | 0.539 | 0.0500 | 0.464 | 0 | 116 | 70 | 130 | | | |
| Benzene | 0.0452 | 0.00500 | 0.0464 | 0 | 97.4 | 70 | 130 | | | |
| Bromobenzene | 0.0415 | 0.00500 | 0.0464 | 0 | 89.4 | 70 | 130 | | | |
| Bromochloromethane | 0.0461 | 0.00500 | 0.0464 | 0 | 99.4 | 70 | 130 | | | |
| Bromodichloromethane | 0.0469 | 0.00500 | 0.0464 | 0 | 101 | 70 | 130 | | | |
| Bromoform | 0.0484 | 0.00500 | 0.0464 | 0 | 104 | 70 | 130 | | | |
| Bromomethane | 0.0500 | 0.00500 | 0.0464 | 0 | 108 | 70 | 130 | | | |
| Carbon disulfide | 0.0412 | 0.0150 | 0.0464 | 0 | 88.7 | 70 | 130 | | | |
| Carbon tetrachloride | 0.0469 | 0.00500 | 0.0464 | 0 | 101 | 70 | 130 | | | |
| Chlorobenzene | 0.0436 | 0.00500 | 0.0464 | 0 | 93.9 | 70 | 130 | | | |
| Chloroethane | 0.0468 | 0.00500 | 0.0464 | 0 | 101 | 70 | 130 | | | |
| Chloroform | 0.0462 | 0.00500 | 0.0464 | 0 | 99.5 | 70 | 130 | | | |
| Chloromethane | 0.0494 | 0.00500 | 0.0464 | 0 | 106 | 70 | 130 | | | |

Qualifiers:

- B** Analyte detected in the associated Method Blank
- J** Analyte detected between MDL and RL
- ND** Not Detected at the Method Detection Limit
- RL** Reporting Limit
- J** Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_220922A

| Sample ID: ICV-220922 | Batch ID: R123170 | TestNo: SW8260D | Units: mg/Kg | | | | | | | |
|-----------------------------|-----------------------|--------------------------------------|--------------|---------|------|----------|-----------|------|----------|------|
| SampType: ICV | Run ID: GCMS1_220922A | Analysis Date: 9/22/2022 11:33:00 AM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| cis-1,2-Dichloroethene | 0.0450 | 0.00500 | 0.0464 | 0 | 97.0 | 70 | 130 | | | |
| cis-1,3-Dichloropropene | 0.0471 | 0.00500 | 0.0464 | 0 | 102 | 70 | 130 | | | |
| Cyclohexane | 0.0541 | 0.0150 | 0.0464 | 0 | 117 | 70 | 130 | | | N |
| Dibromochloromethane | 0.0473 | 0.00500 | 0.0464 | 0 | 102 | 70 | 130 | | | |
| Dibromomethane | 0.0463 | 0.00500 | 0.0464 | 0 | 99.8 | 70 | 130 | | | |
| Dichlorodifluoromethane | 0.0482 | 0.00500 | 0.0464 | 0 | 104 | 70 | 130 | | | |
| Ethylbenzene | 0.0449 | 0.00500 | 0.0464 | 0 | 96.7 | 70 | 130 | | | |
| Hexachlorobutadiene | 0.0417 | 0.00500 | 0.0464 | 0 | 89.9 | 70 | 130 | | | |
| Isopropylbenzene | 0.0449 | 0.00500 | 0.0464 | 0 | 96.8 | 70 | 130 | | | |
| m,p-Xylene | 0.0885 | 0.00500 | 0.0928 | 0 | 95.4 | 70 | 130 | | | |
| Methyl Acetate | 0.0501 | 0.0150 | 0.0464 | 0 | 108 | 70 | 130 | | | |
| Methyl tert-butyl ether | 0.0468 | 0.00500 | 0.0464 | 0 | 101 | 70 | 130 | | | |
| Methylcyclohexane | 0.0474 | 0.0150 | 0.0464 | 0 | 102 | 70 | 130 | | | |
| Methylene chloride | 0.0479 | 0.00500 | 0.0464 | 0 | 103 | 70 | 130 | | | |
| Naphthalene | 0.0433 | 0.0150 | 0.0464 | 0 | 93.4 | 70 | 130 | | | |
| n-Butylbenzene | 0.0436 | 0.00500 | 0.0464 | 0 | 93.9 | 70 | 130 | | | |
| n-Propylbenzene | 0.0431 | 0.00500 | 0.0464 | 0 | 92.9 | 70 | 130 | | | |
| o-Xylene | 0.0456 | 0.00500 | 0.0464 | 0 | 98.2 | 70 | 130 | | | |
| p-Isopropyltoluene | 0.0425 | 0.00500 | 0.0464 | 0 | 91.5 | 70 | 130 | | | |
| sec-Butylbenzene | 0.0421 | 0.00500 | 0.0464 | 0 | 90.8 | 70 | 130 | | | |
| Styrene | 0.0455 | 0.00500 | 0.0464 | 0 | 98.0 | 70 | 130 | | | |
| tert-Butylbenzene | 0.0421 | 0.00500 | 0.0464 | 0 | 90.8 | 70 | 130 | | | |
| Tetrachloroethene | 0.0442 | 0.00500 | 0.0464 | 0 | 95.3 | 70 | 130 | | | |
| Toluene | 0.0467 | 0.00500 | 0.0464 | 0 | 101 | 70 | 130 | | | |
| trans-1,2-Dichloroethene | 0.0444 | 0.00500 | 0.0464 | 0 | 95.7 | 70 | 130 | | | |
| trans-1,3-Dichloropropene | 0.0479 | 0.00500 | 0.0464 | 0 | 103 | 70 | 130 | | | |
| Trichloroethene | 0.0439 | 0.00500 | 0.0464 | 0 | 94.7 | 70 | 130 | | | |
| Trichlorofluoromethane | 0.0456 | 0.0150 | 0.0464 | 0 | 98.3 | 70 | 130 | | | |
| Vinyl chloride | 0.0455 | 0.00500 | 0.0464 | 0 | 98.0 | 70 | 130 | | | |
| Total Xylenes | 0.134 | 0.00500 | 0.139 | 0 | 96.3 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 46.5 | | 50.00 | | 92.9 | 52 | 149 | | | |
| Surr: 4-Bromofluorobenzene | 49.4 | | 50.00 | | 98.8 | 84 | 118 | | | |
| Surr: Dibromofluoromethane | 48.4 | | 50.00 | | 96.7 | 65 | 135 | | | |
| Surr: Toluene-d8 | 47.7 | | 50.00 | | 95.4 | 84 | 116 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_220617A

| Sample ID: DCS-105862 | Batch ID: 105862 | TestNo: SW8260D | Units: mg/Kg | | | | | | | |
|--------------------------------|-----------------------|-------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: DCS | Run ID: GCMS2_220617A | Analysis Date: 6/17/2022 3:48:00 PM | Prep Date: 6/17/2022 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 0.00177 | 0.00500 | 0.00232 | 0 | 76.3 | 10 | 400 | 0 | 0 | 0 |
| 1,1,1-Trichloroethane | 0.00224 | 0.00500 | 0.00232 | 0 | 96.6 | 10 | 400 | 0 | 0 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.00200 | 0.00500 | 0.00232 | 0 | 86.2 | 10 | 400 | 0 | 0 | 0 |
| 1,1,2-Trichloroethane | 0.00210 | 0.00500 | 0.00232 | 0 | 90.5 | 10 | 400 | 0 | 0 | 0 |
| 1,1,2-Trichlorotrifluoroethane | 0.00235 | 0.0150 | 0.00232 | 0 | 101 | 10 | 400 | 0 | 0 | 0 |
| 1,1-Dichloroethane | 0.00238 | 0.00500 | 0.00232 | 0 | 103 | 10 | 400 | 0 | 0 | 0 |
| 1,1-Dichloroethene | 0.00229 | 0.00500 | 0.00232 | 0 | 98.7 | 10 | 400 | 0 | 0 | 0 |
| 1,1-Dichloropropene | 0.00230 | 0.00500 | 0.00232 | 0 | 99.1 | 10 | 400 | 0 | 0 | 0 |
| 1,2,3-Trichlorobenzene | 0.00419 | 0.00500 | 0.00232 | 0 | 181 | 10 | 400 | 0 | 0 | 0 |
| 1,2,3-Trichloropropane | 0.00194 | 0.00500 | 0.00232 | 0 | 83.6 | 10 | 400 | 0 | 0 | 0 |
| 1,2,4-Trichlorobenzene | 0.00369 | 0.00500 | 0.00232 | 0 | 159 | 10 | 400 | 0 | 0 | 0 |
| 1,2,4-Trimethylbenzene | 0.00173 | 0.00500 | 0.00232 | 0 | 74.6 | 10 | 400 | 0 | 0 | 0 |
| 1,2-Dibromo-3-chloropropane | 0.000520 | 0.00500 | 0.00232 | 0 | 22.4 | 10 | 400 | 0 | 0 | 0 |
| 1,2-Dibromoethane | 0.00179 | 0.00500 | 0.00232 | 0 | 77.2 | 10 | 400 | 0 | 0 | 0 |
| 1,2-Dichlorobenzene | 0.00195 | 0.00500 | 0.00232 | 0 | 84.1 | 10 | 400 | 0 | 0 | 0 |
| 1,2-Dichloroethane | 0.00231 | 0.00500 | 0.00232 | 0 | 99.6 | 10 | 400 | 0 | 0 | 0 |
| 1,2-Dichloropropane | 0.00229 | 0.00500 | 0.00232 | 0 | 98.7 | 10 | 400 | 0 | 0 | 0 |
| 1,3,5-Trimethylbenzene | 0.00192 | 0.00500 | 0.00232 | 0 | 82.8 | 10 | 400 | 0 | 0 | 0 |
| 1,3-Dichlorobenzene | 0.00186 | 0.00500 | 0.00232 | 0 | 80.2 | 10 | 400 | 0 | 0 | 0 |
| 1,3-Dichloropropane | 0.00200 | 0.00500 | 0.00232 | 0 | 86.2 | 10 | 400 | 0 | 0 | 0 |
| 1,4-Dichlorobenzene | 0.00240 | 0.00500 | 0.00232 | 0 | 103 | 10 | 400 | 0 | 0 | 0 |
| 1-Chlorohexane | 0.00268 | 0.00500 | 0.00232 | 0 | 116 | 10 | 400 | 0 | 0 | 0 |
| 2,2-Dichloropropane | 0.00233 | 0.00500 | 0.00232 | 0 | 100 | 10 | 400 | 0 | 0 | 0 |
| 2-Butanone | 0.0107 | 0.0150 | 0.0116 | 0 | 92.0 | 10 | 400 | 0 | 0 | 0 |
| 2-Chlorotoluene | 0.00192 | 0.00500 | 0.00232 | 0 | 82.8 | 10 | 400 | 0 | 0 | 0 |
| 2-Hexanone | 0.00785 | 0.0150 | 0.0116 | 0 | 67.7 | 10 | 400 | 0 | 0 | 0 |
| 4-Chlorotoluene | 0.00160 | 0.00500 | 0.00232 | 0 | 69.0 | 10 | 400 | 0 | 0 | 0 |
| 4-Methyl-2-pentanone | 0.00946 | 0.0150 | 0.0116 | 0 | 81.6 | 10 | 400 | 0 | 0 | 0 |
| Acetone | 0.0100 | 0.0500 | 0.0116 | 0 | 86.4 | 10 | 400 | 0 | 0 | 0 |
| Benzene | 0.00242 | 0.00500 | 0.00232 | 0 | 104 | 10 | 400 | 0 | 0 | 0 |
| Bromobenzene | 0.00199 | 0.00500 | 0.00232 | 0 | 85.8 | 10 | 400 | 0 | 0 | 0 |
| Bromochloromethane | 0.00222 | 0.00500 | 0.00232 | 0 | 95.7 | 10 | 400 | 0 | 0 | 0 |
| Bromodichloromethane | 0.00207 | 0.00500 | 0.00232 | 0 | 89.2 | 10 | 400 | 0 | 0 | 0 |
| Bromoform | 0.00131 | 0.00500 | 0.00232 | 0 | 56.5 | 10 | 400 | 0 | 0 | 0 |
| Carbon disulfide | 0.00229 | 0.0150 | 0.00232 | 0 | 98.7 | 10 | 400 | 0 | 0 | 0 |
| Carbon tetrachloride | 0.00215 | 0.00500 | 0.00232 | 0 | 92.7 | 10 | 400 | 0 | 0 | 0 |
| Chlorobenzene | 0.00204 | 0.00500 | 0.00232 | 0 | 87.9 | 10 | 400 | 0 | 0 | 0 |
| Chloroethane | 0.00253 | 0.00500 | 0.00232 | 0 | 109 | 10 | 400 | 0 | 0 | 0 |
| Chloroform | 0.00234 | 0.00500 | 0.00232 | 0 | 101 | 10 | 400 | 0 | 0 | 0 |
| Chloromethane | 0.00223 | 0.00500 | 0.00232 | 0 | 96.1 | 10 | 400 | 0 | 0 | 0 |
| cis-1,2-Dichloroethene | 0.00233 | 0.00500 | 0.00232 | 0 | 100 | 10 | 400 | 0 | 0 | 0 |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_220617A

| Sample ID: DCS-105862 | Batch ID: 105862 | TestNo: SW8260D | | Units: | mg/Kg | | | | | |
|---------------------------|-----------------------|-------------------------------------|-----------|---------|------------|-----------|-----------|------|----------|------|
| SampType: DCS | Run ID: GCMS2_220617A | Analysis Date: 6/17/2022 3:48:00 PM | | | Prep Date: | 6/17/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| cis-1,3-Dichloropropene | 0.00198 | 0.00500 | 0.00232 | 0 | 85.3 | 10 | 400 | 0 | 0 | |
| Cyclohexane | 0.00219 | 0.0150 | 0.00232 | 0 | 94.4 | 10 | 400 | 0 | 0 | N |
| Dibromochloromethane | 0.00166 | 0.00500 | 0.00232 | 0 | 71.6 | 10 | 400 | 0 | 0 | |
| Dibromomethane | 0.00216 | 0.00500 | 0.00232 | 0 | 93.1 | 10 | 400 | 0 | 0 | |
| Dichlorodifluoromethane | 0.00189 | 0.00500 | 0.00232 | 0 | 81.5 | 10 | 400 | 0 | 0 | |
| Ethylbenzene | 0.00188 | 0.00500 | 0.00232 | 0 | 81.0 | 10 | 400 | 0 | 0 | |
| Hexachlorobutadiene | 0.00309 | 0.00500 | 0.00232 | 0 | 133 | 10 | 400 | 0 | 0 | |
| Isopropylbenzene | 0.00195 | 0.00500 | 0.00232 | 0 | 84.1 | 10 | 400 | 0 | 0 | |
| m,p-Xylene | 0.00397 | 0.00500 | 0.00464 | 0 | 85.6 | 10 | 400 | 0 | 0 | |
| Methyl Acetate | 0.00218 | 0.0150 | 0.00232 | 0 | 94.0 | 10 | 400 | 0 | 0 | |
| Methyl tert-butyl ether | 0.00236 | 0.00500 | 0.00232 | 0 | 102 | 10 | 400 | 0 | 0 | |
| Methylcyclohexane | 0.00211 | 0.0150 | 0.00232 | 0 | 90.9 | 10 | 400 | 0 | 0 | |
| Methylene chloride | 0.00164 | 0.00500 | 0.00232 | 0 | 70.7 | 10 | 400 | 0 | 0 | |
| Naphthalene | 0.00626 | 0.0150 | 0.00232 | 0 | 270 | 10 | 400 | 0 | 0 | |
| n-Butylbenzene | 0.00312 | 0.00500 | 0.00232 | 0 | 134 | 10 | 400 | 0 | 0 | |
| n-Propylbenzene | 0.00203 | 0.00500 | 0.00232 | 0 | 87.5 | 10 | 400 | 0 | 0 | |
| o-Xylene | 0.00185 | 0.00500 | 0.00232 | 0 | 79.7 | 10 | 400 | 0 | 0 | |
| p-Isopropyltoluene | 0.00199 | 0.00500 | 0.00232 | 0 | 85.8 | 10 | 400 | 0 | 0 | |
| sec-Butylbenzene | 0.00228 | 0.00500 | 0.00232 | 0 | 98.3 | 10 | 400 | 0 | 0 | |
| Styrene | 0.00148 | 0.00500 | 0.00232 | 0 | 63.8 | 10 | 400 | 0 | 0 | |
| tert-Butylbenzene | 0.00211 | 0.00500 | 0.00232 | 0 | 90.9 | 10 | 400 | 0 | 0 | |
| Tetrachloroethene | 0.00326 | 0.00500 | 0.00232 | 0 | 141 | 10 | 400 | 0 | 0 | |
| Toluene | 0.00229 | 0.00500 | 0.00232 | 0 | 98.7 | 10 | 400 | 0 | 0 | |
| trans-1,2-Dichloroethene | 0.00240 | 0.00500 | 0.00232 | 0 | 103 | 10 | 400 | 0 | 0 | |
| trans-1,3-Dichloropropene | 0.00188 | 0.00500 | 0.00232 | 0 | 81.0 | 10 | 400 | 0 | 0 | |
| Trichloroethene | 0.00213 | 0.00500 | 0.00232 | 0 | 91.8 | 10 | 400 | 0 | 0 | |
| Trichlorofluoromethane | 0.00230 | 0.0150 | 0.00232 | 0 | 99.1 | 10 | 400 | 0 | 0 | |
| Vinyl chloride | 0.00231 | 0.00500 | 0.00232 | 0 | 99.6 | 10 | 400 | 0 | 0 | |
| Total Xylenes | 0.00582 | 0.00500 | 0.00696 | 0 | 83.6 | 10 | 400 | 0 | 0 | |

| Sample ID: DCS2-105862 | Batch ID: 105862 | TestNo: SW8260D | | Units: | mg/Kg | | | | | |
|--------------------------------|-----------------------|-------------------------------------|-----------|---------|------------|-----------|-----------|------|----------|------|
| SampType: DCS2 | Run ID: GCMS2_220617A | Analysis Date: 6/17/2022 4:16:00 PM | | | Prep Date: | 6/17/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 0.00396 | 0.00500 | 0.00464 | 0 | 85.3 | 10 | 400 | 0 | 0 | |
| 1,1,1-Trichloroethane | 0.00480 | 0.00500 | 0.00464 | 0 | 103 | 10 | 400 | 0 | 0 | |
| 1,1,2,2-Tetrachloroethane | 0.00419 | 0.00500 | 0.00464 | 0 | 90.3 | 10 | 400 | 0 | 0 | |
| 1,1,2-Trichloroethane | 0.00489 | 0.00500 | 0.00464 | 0 | 105 | 10 | 400 | 0 | 0 | |
| 1,1,2-Trichlorotrifluoroethane | 0.00497 | 0.0150 | 0.00464 | 0 | 107 | 10 | 400 | 0 | 0 | |
| 1,1-Dichloroethane | 0.00487 | 0.00500 | 0.00464 | 0 | 105 | 10 | 400 | 0 | 0 | |
| 1,1-Dichloroethene | 0.00484 | 0.00500 | 0.00464 | 0 | 104 | 10 | 400 | 0 | 0 | |

| | | | | | |
|--------------------|----|---|-----|---------------------------------------|--|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor | |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit | |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits | |
| | RL | Reporting Limit | S | Spike Recovery outside control limits | |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAP certified | |

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_220617A

| Sample ID: DCS2-105862 | Batch ID: 105862 | TestNo: SW8260D | | Units: | mg/Kg | | | | | |
|-----------------------------|-----------------------|-------------------------------------|-----------|---------|------------|-----------|-----------|------|----------|------|
| SampType: DCS2 | Run ID: GCMS2_220617A | Analysis Date: 6/17/2022 4:16:00 PM | | | Prep Date: | 6/17/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1-Dichloropropene | 0.00488 | 0.00500 | 0.00464 | 0 | 105 | 10 | 400 | 0 | 0 | |
| 1,2,3-Trichlorobenzene | 0.00534 | 0.00500 | 0.00464 | 0 | 115 | 10 | 400 | 0 | 0 | |
| 1,2,3-Trichloropropane | 0.00397 | 0.00500 | 0.00464 | 0 | 85.6 | 10 | 400 | 0 | 0 | |
| 1,2,4-Trichlorobenzene | 0.00422 | 0.00500 | 0.00464 | 0 | 90.9 | 10 | 400 | 0 | 0 | |
| 1,2,4-Trimethylbenzene | 0.00381 | 0.00500 | 0.00464 | 0 | 82.1 | 10 | 400 | 0 | 0 | |
| 1,2-Dibromo-3-chloropropane | 0.00252 | 0.00500 | 0.00464 | 0 | 54.3 | 10 | 400 | 0 | 0 | |
| 1,2-Dibromoethane | 0.00432 | 0.00500 | 0.00464 | 0 | 93.1 | 10 | 400 | 0 | 0 | |
| 1,2-Dichlorobenzene | 0.00421 | 0.00500 | 0.00464 | 0 | 90.7 | 10 | 400 | 0 | 0 | |
| 1,2-Dichloroethane | 0.00483 | 0.00500 | 0.00464 | 0 | 104 | 10 | 400 | 0 | 0 | |
| 1,2-Dichloropropane | 0.00486 | 0.00500 | 0.00464 | 0 | 105 | 10 | 400 | 0 | 0 | |
| 1,3,5-Trimethylbenzene | 0.00422 | 0.00500 | 0.00464 | 0 | 90.9 | 10 | 400 | 0 | 0 | |
| 1,3-Dichlorobenzene | 0.00409 | 0.00500 | 0.00464 | 0 | 88.1 | 10 | 400 | 0 | 0 | |
| 1,3-Dichloropropane | 0.00452 | 0.00500 | 0.00464 | 0 | 97.4 | 10 | 400 | 0 | 0 | |
| 1,4-Dichlorobenzene | 0.00506 | 0.00500 | 0.00464 | 0 | 109 | 10 | 400 | 0 | 0 | |
| 1-Chlorohexane | 0.00469 | 0.00500 | 0.00464 | 0 | 101 | 10 | 400 | 0 | 0 | |
| 2,2-Dichloropropane | 0.00484 | 0.00500 | 0.00464 | 0 | 104 | 10 | 400 | 0 | 0 | |
| 2-Butanone | 0.0230 | 0.0150 | 0.0232 | 0 | 99.1 | 10 | 400 | 0 | 0 | |
| 2-Chlorotoluene | 0.00398 | 0.00500 | 0.00464 | 0 | 85.8 | 10 | 400 | 0 | 0 | |
| 2-Hexanone | 0.0180 | 0.0150 | 0.0232 | 0 | 77.8 | 10 | 400 | 0 | 0 | |
| 4-Chlorotoluene | 0.00404 | 0.00500 | 0.00464 | 0 | 87.1 | 10 | 400 | 0 | 0 | |
| 4-Methyl-2-pentanone | 0.0213 | 0.0150 | 0.0232 | 0 | 91.6 | 10 | 400 | 0 | 0 | |
| Acetone | 0.0217 | 0.0500 | 0.0232 | 0 | 93.7 | 10 | 400 | 0 | 0 | |
| Benzene | 0.00502 | 0.00500 | 0.00464 | 0 | 108 | 10 | 400 | 0 | 0 | |
| Bromobenzene | 0.00441 | 0.00500 | 0.00464 | 0 | 95.0 | 10 | 400 | 0 | 0 | |
| Bromochloromethane | 0.00520 | 0.00500 | 0.00464 | 0 | 112 | 10 | 400 | 0 | 0 | |
| Bromodichloromethane | 0.00435 | 0.00500 | 0.00464 | 0 | 93.8 | 10 | 400 | 0 | 0 | |
| Bromoform | 0.00329 | 0.00500 | 0.00464 | 0 | 70.9 | 10 | 400 | 0 | 0 | |
| Bromomethane | 0.00337 | 0.00500 | 0.00464 | 0 | 72.6 | 10 | 400 | 0 | 0 | |
| Carbon disulfide | 0.00479 | 0.0150 | 0.00464 | 0 | 103 | 10 | 400 | 0 | 0 | |
| Carbon tetrachloride | 0.00431 | 0.00500 | 0.00464 | 0 | 92.9 | 10 | 400 | 0 | 0 | |
| Chlorobenzene | 0.00462 | 0.00500 | 0.00464 | 0 | 99.6 | 10 | 400 | 0 | 0 | |
| Chloroethane | 0.00548 | 0.00500 | 0.00464 | 0 | 118 | 10 | 400 | 0 | 0 | |
| Chloroform | 0.00504 | 0.00500 | 0.00464 | 0 | 109 | 10 | 400 | 0 | 0 | |
| Chloromethane | 0.00468 | 0.00500 | 0.00464 | 0 | 101 | 10 | 400 | 0 | 0 | |
| cis-1,2-Dichloroethene | 0.00520 | 0.00500 | 0.00464 | 0 | 112 | 10 | 400 | 0 | 0 | |
| cis-1,3-Dichloropropene | 0.00441 | 0.00500 | 0.00464 | 0 | 95.0 | 10 | 400 | 0 | 0 | |
| Cyclohexane | 0.00479 | 0.0150 | 0.00464 | 0 | 103 | 10 | 400 | 0 | 0 | N |
| Dibromochloromethane | 0.00380 | 0.00500 | 0.00464 | 0 | 81.9 | 10 | 400 | 0 | 0 | |
| Dibromomethane | 0.00491 | 0.00500 | 0.00464 | 0 | 106 | 10 | 400 | 0 | 0 | |
| Dichlorodifluoromethane | 0.00399 | 0.00500 | 0.00464 | 0 | 86.0 | 10 | 400 | 0 | 0 | |
| Ethylbenzene | 0.00426 | 0.00500 | 0.00464 | 0 | 91.8 | 10 | 400 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_220617A

| Sample ID: DCS2-105862 | Batch ID: 105862 | TestNo: SW8260D | | Units: | mg/Kg | | | | | |
|---------------------------|-----------------------|-------------------------------------|-----------|---------|------------|-----------|-----------|------|----------|------|
| SampType: DCS2 | Run ID: GCMS2_220617A | Analysis Date: 6/17/2022 4:16:00 PM | | | Prep Date: | 6/17/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Hexachlorobutadiene | 0.00510 | 0.00500 | 0.00464 | 0 | 110 | 10 | 400 | 0 | 0 | |
| Isopropylbenzene | 0.00454 | 0.00500 | 0.00464 | 0 | 97.8 | 10 | 400 | 0 | 0 | |
| m,p-Xylene | 0.00907 | 0.00500 | 0.00928 | 0 | 97.7 | 10 | 400 | 0 | 0 | |
| Methyl Acetate | 0.00423 | 0.0150 | 0.00464 | 0 | 91.2 | 10 | 400 | 0 | 0 | |
| Methyl tert-butyl ether | 0.00502 | 0.00500 | 0.00464 | 0 | 108 | 10 | 400 | 0 | 0 | |
| Methylcyclohexane | 0.00447 | 0.0150 | 0.00464 | 0 | 96.3 | 10 | 400 | 0 | 0 | |
| Methylene chloride | 0.00442 | 0.00500 | 0.00464 | 0 | 95.3 | 10 | 400 | 0 | 0 | |
| Naphthalene | 0.00644 | 0.0150 | 0.00464 | 0 | 139 | 10 | 400 | 0 | 0 | |
| n-Butylbenzene | 0.00486 | 0.00500 | 0.00464 | 0 | 105 | 10 | 400 | 0 | 0 | |
| n-Propylbenzene | 0.00426 | 0.00500 | 0.00464 | 0 | 91.8 | 10 | 400 | 0 | 0 | |
| o-Xylene | 0.00414 | 0.00500 | 0.00464 | 0 | 89.2 | 10 | 400 | 0 | 0 | |
| p-Isopropyltoluene | 0.00421 | 0.00500 | 0.00464 | 0 | 90.7 | 10 | 400 | 0 | 0 | |
| sec-Butylbenzene | 0.00431 | 0.00500 | 0.00464 | 0 | 92.9 | 10 | 400 | 0 | 0 | |
| Styrene | 0.00415 | 0.00500 | 0.00464 | 0 | 89.4 | 10 | 400 | 0 | 0 | |
| tert-Butylbenzene | 0.00436 | 0.00500 | 0.00464 | 0 | 94.0 | 10 | 400 | 0 | 0 | |
| Tetrachloroethene | 0.00555 | 0.00500 | 0.00464 | 0 | 120 | 10 | 400 | 0 | 0 | |
| Toluene | 0.00479 | 0.00500 | 0.00464 | 0 | 103 | 10 | 400 | 0 | 0 | |
| trans-1,2-Dichloroethene | 0.00488 | 0.00500 | 0.00464 | 0 | 105 | 10 | 400 | 0 | 0 | |
| trans-1,3-Dichloropropene | 0.00418 | 0.00500 | 0.00464 | 0 | 90.1 | 10 | 400 | 0 | 0 | |
| Trichloroethene | 0.00488 | 0.00500 | 0.00464 | 0 | 105 | 10 | 400 | 0 | 0 | |
| Trichlorofluoromethane | 0.00487 | 0.0150 | 0.00464 | 0 | 105 | 10 | 400 | 0 | 0 | |
| Vinyl chloride | 0.00484 | 0.00500 | 0.00464 | 0 | 104 | 10 | 400 | 0 | 0 | |
| Total Xylenes | 0.0132 | 0.00500 | 0.0139 | 0 | 94.9 | 10 | 400 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_220914A

The QC data in batch 107035 applies to the following samples: 2209090-04A, 2209090-06A, 2209090-10A, 2209090-51A, 2209090-52A

| Sample ID: LCS-107035 | Batch ID: 107035 | TestNo: SW8260D | Units: mg/Kg | | | | | | | |
|--------------------------------|-----------------------|-------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: GCMS2_220914A | Analysis Date: 9/14/2022 4:07:00 PM | Prep Date: 9/14/2022 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 0.0173 | 0.00500 | 0.0232 | 0 | 74.7 | 74 | 125 | | | |
| 1,1,1-Trichloroethane | 0.0174 | 0.00500 | 0.0232 | 0 | 74.8 | 68 | 130 | | | |
| 1,1,2,2-Tetrachloroethane | 0.0160 | 0.00500 | 0.0232 | 0 | 69.0 | 59 | 140 | | | |
| 1,1,2-Trichloroethane | 0.0179 | 0.00500 | 0.0232 | 0 | 77.0 | 62 | 127 | | | |
| 1,1,2-Trichlorotrifluoroethane | 0.0181 | 0.0150 | 0.0232 | 0 | 78.0 | 57 | 135 | | | |
| 1,1-Dichloroethane | 0.0190 | 0.00500 | 0.0232 | 0 | 81.9 | 73 | 125 | | | |
| 1,1-Dichloroethene | 0.0165 | 0.00500 | 0.0232 | 0 | 71.1 | 65 | 136 | | | |
| 1,1-Dichloropropene | 0.0176 | 0.00500 | 0.0232 | 0 | 75.9 | 70 | 135 | | | |
| 1,2,3-Trichlorobenzene | 0.0186 | 0.00500 | 0.0232 | 0 | 80.0 | 62 | 133 | | | |
| 1,2,3-Trichloropropane | 0.0160 | 0.00500 | 0.0232 | 0 | 69.0 | 63 | 130 | | | |
| 1,2,4-Trichlorobenzene | 0.0178 | 0.00500 | 0.0232 | 0 | 76.6 | 65 | 131 | | | |
| 1,2,4-Trimethylbenzene | 0.0173 | 0.00500 | 0.0232 | 0 | 74.4 | 65 | 135 | | | |
| 1,2-Dibromo-3-chloropropane | 0.0115 | 0.00500 | 0.0232 | 0 | 49.6 | 49 | 135 | | | |
| 1,2-Dibromoethane | 0.0175 | 0.00500 | 0.0232 | 0 | 75.3 | 70 | 124 | | | |
| 1,2-Dichlorobenzene | 0.0190 | 0.00500 | 0.0232 | 0 | 81.7 | 74 | 120 | | | |
| 1,2-Dichloroethane | 0.0163 | 0.00500 | 0.0232 | 0 | 70.3 | 72 | 137 | | | S |
| 1,2-Dichloropropane | 0.0183 | 0.00500 | 0.0232 | 0 | 78.7 | 71 | 120 | | | |
| 1,3,5-Trimethylbenzene | 0.0181 | 0.00500 | 0.0232 | 0 | 77.9 | 65 | 133 | | | |
| 1,3-Dichlorobenzene | 0.0185 | 0.00500 | 0.0232 | 0 | 79.7 | 72 | 124 | | | |
| 1,3-Dichloropropane | 0.0170 | 0.00500 | 0.0232 | 0 | 73.1 | 76 | 123 | | | S |
| 1,4-Dichlorobenzene | 0.0200 | 0.00500 | 0.0232 | 0 | 86.0 | 72 | 125 | | | |
| 1-Chlorohexane | 0.0161 | 0.00500 | 0.0232 | 0 | 69.4 | 60 | 135 | | | |
| 2,2-Dichloropropane | 0.0179 | 0.00500 | 0.0232 | 0 | 77.2 | 67 | 134 | | | |
| 2-Butanone | 0.152 | 0.0150 | 0.232 | 0 | 65.3 | 60 | 135 | | | |
| 2-Chlorotoluene | 0.0164 | 0.00500 | 0.0232 | 0 | 70.6 | 69 | 128 | | | |
| 2-Hexanone | 0.153 | 0.0150 | 0.232 | 0 | 65.9 | 50 | 150 | | | |
| 4-Chlorotoluene | 0.0170 | 0.00500 | 0.0232 | 0 | 73.4 | 73 | 126 | | | |
| 4-Methyl-2-pentanone | 0.159 | 0.0150 | 0.232 | 0 | 68.7 | 60 | 135 | | | |
| Acetone | 0.144 | 0.0500 | 0.232 | 0 | 62.1 | 40 | 141 | | | |
| Benzene | 0.0193 | 0.00500 | 0.0232 | 0 | 83.1 | 73 | 126 | | | |
| Bromobenzene | 0.0185 | 0.00500 | 0.0232 | 0 | 79.9 | 66 | 121 | | | |
| Bromochloromethane | 0.0197 | 0.00500 | 0.0232 | 0 | 84.8 | 71 | 127 | | | |
| Bromodichloromethane | 0.0174 | 0.00500 | 0.0232 | 0 | 74.8 | 72 | 128 | | | |
| Bromoform | 0.0162 | 0.00500 | 0.0232 | 0 | 69.9 | 66 | 137 | | | |
| Bromomethane | 0.0177 | 0.00500 | 0.0232 | 0 | 76.3 | 45 | 141 | | | |
| Carbon disulfide | 0.0158 | 0.0150 | 0.0232 | 0 | 67.9 | 50 | 150 | | | |
| Carbon tetrachloride | 0.0165 | 0.00500 | 0.0232 | 0 | 71.2 | 67 | 133 | | | |
| Chlorobenzene | 0.0185 | 0.00500 | 0.0232 | 0 | 79.6 | 75 | 123 | | | |
| Chloroethane | 0.0202 | 0.00500 | 0.0232 | 0 | 87.1 | 41 | 141 | | | |
| Chloroform | 0.0185 | 0.00500 | 0.0232 | 0 | 79.7 | 72 | 124 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_220914A

| Sample ID: LCS-107035 | Batch ID: 107035 | TestNo: SW8260D | | Units: mg/Kg | | | | | | |
|-----------------------------|-----------------------|-------------------------------------|-----------|--------------|----------------------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: GCMS2_220914A | Analysis Date: 9/14/2022 4:07:00 PM | | | Prep Date: 9/14/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloromethane | 0.0174 | 0.00500 | 0.0232 | 0 | 75.0 | 51 | 129 | | | |
| cis-1,2-Dichloroethene | 0.0195 | 0.00500 | 0.0232 | 0 | 84.2 | 67 | 125 | | | |
| cis-1,3-Dichloropropene | 0.0168 | 0.00500 | 0.0232 | 0 | 72.5 | 72 | 126 | | | |
| Cyclohexane | 0.0171 | 0.0150 | 0.0232 | 0 | 73.5 | 40 | 158 | | | N |
| Dibromochloromethane | 0.0169 | 0.00500 | 0.0232 | 0 | 73.0 | 66 | 130 | | | |
| Dibromomethane | 0.0181 | 0.00500 | 0.0232 | 0 | 78.0 | 73 | 128 | | | |
| Dichlorodifluoromethane | 0.0131 | 0.00500 | 0.0232 | 0 | 56.6 | 34 | 136 | | | |
| Ethylbenzene | 0.0178 | 0.00500 | 0.0232 | 0 | 76.9 | 74 | 127 | | | |
| Hexachlorobutadiene | 0.0190 | 0.00500 | 0.0232 | 0 | 81.7 | 53 | 142 | | | |
| Isopropylbenzene | 0.0189 | 0.00500 | 0.0232 | 0 | 81.3 | 77 | 129 | | | |
| m,p-Xylene | 0.0366 | 0.00500 | 0.0464 | 0 | 79.0 | 79 | 126 | | | |
| Methyl Acetate | 0.0161 | 0.0150 | 0.0232 | 0 | 69.5 | 50 | 150 | | | |
| Methyl tert-butyl ether | 0.0192 | 0.00500 | 0.0232 | 0 | 82.6 | 50 | 135 | | | |
| Methylcyclohexane | 0.0163 | 0.0150 | 0.0232 | 0 | 70.4 | 50 | 150 | | | |
| Methylene chloride | 0.0220 | 0.00500 | 0.0232 | 0 | 94.9 | 63 | 137 | | | |
| Naphthalene | 0.0129 | 0.0150 | 0.0232 | 0 | 55.4 | 51 | 135 | | | |
| n-Butylbenzene | 0.0171 | 0.00500 | 0.0232 | 0 | 73.8 | 65 | 138 | | | |
| n-Propylbenzene | 0.0174 | 0.00500 | 0.0232 | 0 | 75.2 | 63 | 135 | | | |
| o-Xylene | 0.0183 | 0.00500 | 0.0232 | 0 | 79.1 | 77 | 125 | | | |
| p-Isopropyltoluene | 0.0179 | 0.00500 | 0.0232 | 0 | 77.0 | 75 | 133 | | | |
| sec-Butylbenzene | 0.0176 | 0.00500 | 0.0232 | 0 | 75.9 | 63 | 132 | | | |
| Styrene | 0.0180 | 0.00500 | 0.0232 | 0 | 77.5 | 74 | 128 | | | |
| tert-Butylbenzene | 0.0180 | 0.00500 | 0.0232 | 0 | 77.4 | 65 | 132 | | | |
| Tetrachloroethene | 0.0198 | 0.00500 | 0.0232 | 0 | 85.2 | 67 | 139 | | | |
| Toluene | 0.0186 | 0.00500 | 0.0232 | 0 | 80.3 | 71 | 127 | | | |
| trans-1,2-Dichloroethene | 0.0194 | 0.00500 | 0.0232 | 0 | 83.6 | 66 | 134 | | | |
| trans-1,3-Dichloropropene | 0.0166 | 0.00500 | 0.0232 | 0 | 71.5 | 65 | 127 | | | |
| Trichloroethene | 0.0181 | 0.00500 | 0.0232 | 0 | 77.9 | 77 | 124 | | | |
| Trichlorofluoromethane | 0.0171 | 0.0150 | 0.0232 | 0 | 73.5 | 49 | 139 | | | |
| Vinyl chloride | 0.0172 | 0.00500 | 0.0232 | 0 | 74.1 | 58 | 126 | | | |
| Xylenes, Total | 0.0550 | 0.00500 | 0.0696 | 0 | 79.0 | 75 | 125 | | | |
| Surr: 1,2-Dichloroethane-d4 | 43.8 | | 50.00 | | 87.5 | 52 | 149 | | | |
| Surr: 4-Bromofluorobenzene | 46.6 | | 50.00 | | 93.1 | 84 | 118 | | | |
| Surr: Dibromofluoromethane | 49.9 | | 50.00 | | 99.8 | 65 | 135 | | | |
| Surr: Toluene-d8 | 49.4 | | 50.00 | | 98.7 | 84 | 116 | | | |

| Sample ID: 2209090-10AMS | Batch ID: 107035 | TestNo: SW8260D | | Units: mg/Kg-dry | | | | | | |
|---------------------------|-----------------------|-------------------------------------|-----------|------------------|----------------------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: GCMS2_220914A | Analysis Date: 9/14/2022 4:38:00 PM | | | Prep Date: 9/14/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 0.0218 | 0.00580 | 0.0269 | 0 | 80.9 | 74 | 125 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_220914A

| Sample ID: 2209090-10AMS | Batch ID: 107035 | TestNo: SW8260D | Units: mg/Kg-dry | | | | | | | |
|--------------------------------|-----------------------|-------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MS | Run ID: GCMS2_220914A | Analysis Date: 9/14/2022 4:38:00 PM | Prep Date: 9/14/2022 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane | 0.0214 | 0.00580 | 0.0269 | 0 | 79.4 | 68 | 130 | | | |
| 1,1,2,2-Tetrachloroethane | 0.0237 | 0.00580 | 0.0269 | 0 | 88.1 | 59 | 140 | | | |
| 1,1,2-Trichloroethane | 0.0251 | 0.00580 | 0.0269 | 0 | 93.3 | 62 | 127 | | | |
| 1,1,2-Trichlorotrifluoroethane | 0.0223 | 0.0174 | 0.0269 | 0 | 82.8 | 57 | 135 | | | |
| 1,1-Dichloroethane | 0.0235 | 0.00580 | 0.0269 | 0 | 87.2 | 73 | 125 | | | |
| 1,1-Dichloroethene | 0.0207 | 0.00580 | 0.0269 | 0 | 77.1 | 65 | 136 | | | |
| 1,1-Dichloropropene | 0.0215 | 0.00580 | 0.0269 | 0 | 79.9 | 70 | 135 | | | |
| 1,2,3-Trichlorobenzene | 0.0227 | 0.00580 | 0.0269 | 0 | 84.5 | 62 | 133 | | | |
| 1,2,3-Trichloropropane | 0.0241 | 0.00580 | 0.0269 | 0 | 89.7 | 63 | 130 | | | |
| 1,2,4-Trichlorobenzene | 0.0224 | 0.00580 | 0.0269 | 0 | 83.1 | 65 | 131 | | | |
| 1,2,4-Trimethylbenzene | 0.0203 | 0.00580 | 0.0269 | 0 | 75.4 | 65 | 135 | | | |
| 1,2-Dibromo-3-chloropropane | 0.0193 | 0.00580 | 0.0269 | 0 | 71.8 | 49 | 135 | | | |
| 1,2-Dibromoethane | 0.0248 | 0.00580 | 0.0269 | 0 | 92.0 | 70 | 124 | | | |
| 1,2-Dichlorobenzene | 0.0231 | 0.00580 | 0.0269 | 0 | 85.9 | 74 | 120 | | | |
| 1,2-Dichloroethane | 0.0221 | 0.00580 | 0.0269 | 0 | 82.2 | 72 | 137 | | | |
| 1,2-Dichloropropane | 0.0230 | 0.00580 | 0.0269 | 0 | 85.3 | 71 | 120 | | | |
| 1,3,5-Trimethylbenzene | 0.0215 | 0.00580 | 0.0269 | 0 | 80.0 | 65 | 133 | | | |
| 1,3-Dichlorobenzene | 0.0217 | 0.00580 | 0.0269 | 0 | 80.8 | 72 | 124 | | | |
| 1,3-Dichloropropane | 0.0236 | 0.00580 | 0.0269 | 0 | 87.6 | 76 | 123 | | | |
| 1,4-Dichlorobenzene | 0.0225 | 0.00580 | 0.0269 | 0 | 83.5 | 72 | 125 | | | |
| 1-Chlorohexane | 0.0189 | 0.00580 | 0.0269 | 0 | 70.1 | 60 | 135 | | | |
| 2,2-Dichloropropane | 0.0210 | 0.00580 | 0.0269 | 0 | 77.9 | 67 | 134 | | | |
| 2-Butanone | 0.264 | 0.0174 | 0.269 | 0 | 98.2 | 60 | 135 | | | |
| 2-Chlorotoluene | 0.0201 | 0.00580 | 0.0269 | 0 | 74.8 | 69 | 128 | | | |
| 2-Hexanone | 0.270 | 0.0174 | 0.269 | 0 | 100 | 50 | 150 | | | |
| 4-Chlorotoluene | 0.0204 | 0.00580 | 0.0269 | 0 | 75.9 | 73 | 126 | | | |
| 4-Methyl-2-pentanone | 0.258 | 0.0174 | 0.269 | 0 | 95.7 | 60 | 135 | | | |
| Acetone | 0.267 | 0.0580 | 0.269 | 0 | 99.0 | 40 | 141 | | | |
| Benzene | 0.0234 | 0.00580 | 0.0269 | 0 | 87.1 | 73 | 126 | | | |
| Bromobenzene | 0.0234 | 0.00580 | 0.0269 | 0 | 87.0 | 66 | 121 | | | |
| Bromochloromethane | 0.0272 | 0.00580 | 0.0269 | 0 | 101 | 71 | 127 | | | |
| Bromodichloromethane | 0.0220 | 0.00580 | 0.0269 | 0 | 81.8 | 72 | 128 | | | |
| Bromoform | 0.0237 | 0.00580 | 0.0269 | 0 | 88.1 | 66 | 137 | | | |
| Bromomethane | 0.0219 | 0.00580 | 0.0269 | 0 | 81.5 | 45 | 141 | | | |
| Carbon disulfide | 0.0193 | 0.0174 | 0.0269 | 0 | 71.6 | 50 | 150 | | | |
| Carbon tetrachloride | 0.0198 | 0.00580 | 0.0269 | 0 | 73.4 | 67 | 133 | | | |
| Chlorobenzene | 0.0226 | 0.00580 | 0.0269 | 0 | 84.1 | 75 | 123 | | | |
| Chloroethane | 0.0240 | 0.00580 | 0.0269 | 0 | 89.4 | 41 | 141 | | | |
| Chloroform | 0.0236 | 0.00580 | 0.0269 | 0 | 87.6 | 72 | 124 | | | |
| Chloromethane | 0.0211 | 0.00580 | 0.0269 | 0 | 78.4 | 51 | 129 | | | |
| cis-1,2-Dichloroethene | 0.0240 | 0.00580 | 0.0269 | 0 | 89.4 | 67 | 125 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_220914A

| Sample ID: 2209090-10AMS | Batch ID: 107035 | TestNo: SW8260D | | Units: | mg/Kg-dry | | | | | |
|-----------------------------|-----------------------|-------------------------------------|-----------|---------|------------|-----------|-----------|------|----------|------|
| SampType: MS | Run ID: GCMS2_220914A | Analysis Date: 9/14/2022 4:38:00 PM | | | Prep Date: | 9/14/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| cis-1,3-Dichloropropene | 0.0225 | 0.00580 | 0.0269 | 0 | 83.5 | 72 | 126 | | | |
| Cyclohexane | 0.0219 | 0.0174 | 0.0269 | 0 | 81.2 | 40 | 158 | | | N |
| Dibromochloromethane | 0.0227 | 0.00580 | 0.0269 | 0 | 84.5 | 66 | 130 | | | |
| Dibromomethane | 0.0251 | 0.00580 | 0.0269 | 0 | 93.2 | 73 | 128 | | | |
| Dichlorodifluoromethane | 0.0156 | 0.00580 | 0.0269 | 0 | 58.0 | 34 | 136 | | | |
| Ethylbenzene | 0.0216 | 0.00580 | 0.0269 | 0 | 80.4 | 74 | 127 | | | |
| Hexachlorobutadiene | 0.0220 | 0.00580 | 0.0269 | 0 | 81.7 | 53 | 142 | | | |
| Isopropylbenzene | 0.0231 | 0.00580 | 0.0269 | 0 | 85.9 | 77 | 129 | | | |
| m,p-Xylene | 0.0444 | 0.00580 | 0.0538 | 0 | 82.5 | 79 | 126 | | | |
| Methyl Acetate | 0.0278 | 0.0174 | 0.0269 | 0 | 103 | 50 | 150 | | | |
| Methyl tert-butyl ether | 0.0266 | 0.00580 | 0.0269 | 0 | 98.8 | 50 | 135 | | | |
| Methylcyclohexane | 0.0199 | 0.0174 | 0.0269 | 0 | 73.9 | 50 | 150 | | | |
| Methylene chloride | 0.0268 | 0.00580 | 0.0269 | 0.00699 | 73.7 | 63 | 137 | | | |
| Naphthalene | 0.0206 | 0.0174 | 0.0269 | 0 | 76.5 | 51 | 135 | | | |
| n-Butylbenzene | 0.0195 | 0.00580 | 0.0269 | 0 | 72.6 | 65 | 138 | | | |
| n-Propylbenzene | 0.0213 | 0.00580 | 0.0269 | 0 | 79.1 | 63 | 135 | | | |
| o-Xylene | 0.0227 | 0.00580 | 0.0269 | 0 | 84.2 | 77 | 125 | | | |
| p-Isopropyltoluene | 0.0219 | 0.00580 | 0.0269 | 0 | 81.6 | 75 | 133 | | | |
| sec-Butylbenzene | 0.0214 | 0.00580 | 0.0269 | 0 | 79.4 | 63 | 132 | | | |
| Styrene | 0.0222 | 0.00580 | 0.0269 | 0 | 82.5 | 74 | 128 | | | |
| tert-Butylbenzene | 0.0207 | 0.00580 | 0.0269 | 0 | 77.0 | 65 | 132 | | | |
| Tetrachloroethene | 0.0230 | 0.00580 | 0.0269 | 0 | 85.4 | 67 | 139 | | | |
| Toluene | 0.0224 | 0.00580 | 0.0269 | 0.00112 | 79.1 | 71 | 127 | | | |
| trans-1,2-Dichloroethene | 0.0243 | 0.00580 | 0.0269 | 0 | 90.2 | 66 | 134 | | | |
| trans-1,3-Dichloropropene | 0.0218 | 0.00580 | 0.0269 | 0 | 81.1 | 65 | 127 | | | |
| Trichloroethene | 0.0232 | 0.00580 | 0.0269 | 0 | 86.2 | 77 | 124 | | | |
| Trichlorofluoromethane | 0.0212 | 0.0174 | 0.0269 | 0 | 78.6 | 49 | 139 | | | |
| Vinyl chloride | 0.0209 | 0.00580 | 0.0269 | 0 | 77.5 | 58 | 126 | | | |
| Xylenes, Total | 0.0671 | 0.00580 | 0.0807 | 0 | 83.1 | 75 | 125 | | | |
| Surr: 1,2-Dichloroethane-d4 | 55.1 | | 58.01 | | 94.9 | 52 | 149 | | | |
| Surr: 4-Bromofluorobenzene | 54.0 | | 58.01 | | 93.0 | 84 | 118 | | | |
| Surr: Dibromofluoromethane | 59.1 | | 58.01 | | 102 | 65 | 135 | | | |
| Surr: Toluene-d8 | 58.1 | | 58.01 | | 100 | 84 | 116 | | | |

| Sample ID: 2209090-10AMSD | Batch ID: 107035 | TestNo: SW8260D | | Units: | mg/Kg-dry | | | | | |
|---------------------------|-----------------------|-------------------------------------|-----------|---------|------------|-----------|-----------|------|----------|------|
| SampType: MSD | Run ID: GCMS2_220914A | Analysis Date: 9/14/2022 5:06:00 PM | | | Prep Date: | 9/14/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 0.0194 | 0.00547 | 0.0254 | 0 | 76.6 | 74 | 125 | 11.3 | 30 | |
| 1,1,1-Trichloroethane | 0.0200 | 0.00547 | 0.0254 | 0 | 78.8 | 68 | 130 | 6.67 | 30 | |
| 1,1,2,2-Tetrachloroethane | 0.0217 | 0.00547 | 0.0254 | 0 | 85.6 | 59 | 140 | 8.83 | 30 | |

| | | | | | | |
|--------------------|----|---|-----|---------------------------------------|--|--|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor | | |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit | | |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits | | |
| | RL | Reporting Limit | S | Spike Recovery outside control limits | | |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAP certified | | |

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_220914A

| Sample ID: 2209090-10AMSD | Batch ID: 107035 | TestNo: SW8260D | | Units: | mg/Kg-dry | | | | | |
|--------------------------------|-----------------------|-------------------------------------|-----------|---------|------------|-----------|-----------|------|----------|------|
| SampType: MSD | Run ID: GCMS2_220914A | Analysis Date: 9/14/2022 5:06:00 PM | | | Prep Date: | 9/14/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,2-Trichloroethane | 0.0237 | 0.00547 | 0.0254 | 0 | 93.4 | 62 | 127 | 5.81 | 30 | |
| 1,1,2-Trichlorotrifluoroethane | 0.0204 | 0.0164 | 0.0254 | 0 | 80.5 | 57 | 135 | 8.65 | 30 | |
| 1,1-Dichloroethane | 0.0217 | 0.00547 | 0.0254 | 0 | 85.4 | 73 | 125 | 8.05 | 30 | |
| 1,1-Dichloroethene | 0.0193 | 0.00547 | 0.0254 | 0 | 76.0 | 65 | 136 | 7.31 | 30 | |
| 1,1-Dichloropropene | 0.0198 | 0.00547 | 0.0254 | 0 | 77.8 | 70 | 135 | 8.52 | 30 | |
| 1,2,3-Trichlorobenzene | 0.0194 | 0.00547 | 0.0254 | 0 | 76.4 | 62 | 133 | 16.0 | 30 | |
| 1,2,3-Trichloropropane | 0.0224 | 0.00547 | 0.0254 | 0 | 88.4 | 63 | 130 | 7.31 | 30 | |
| 1,2,4-Trichlorobenzene | 0.0188 | 0.00547 | 0.0254 | 0 | 74.1 | 65 | 131 | 17.4 | 30 | |
| 1,2,4-Trimethylbenzene | 0.0175 | 0.00547 | 0.0254 | 0 | 68.8 | 65 | 135 | 15.0 | 30 | |
| 1,2-Dibromo-3-chloropropane | 0.0174 | 0.00547 | 0.0254 | 0 | 68.5 | 49 | 135 | 10.6 | 30 | |
| 1,2-Dibromoethane | 0.0228 | 0.00547 | 0.0254 | 0 | 89.7 | 70 | 124 | 8.46 | 30 | |
| 1,2-Dichlorobenzene | 0.0203 | 0.00547 | 0.0254 | 0 | 79.9 | 74 | 120 | 13.1 | 30 | |
| 1,2-Dichloroethane | 0.0210 | 0.00547 | 0.0254 | 0 | 82.8 | 72 | 137 | 5.23 | 30 | |
| 1,2-Dichloropropane | 0.0213 | 0.00547 | 0.0254 | 0 | 84.0 | 71 | 120 | 7.53 | 30 | |
| 1,3,5-Trimethylbenzene | 0.0187 | 0.00547 | 0.0254 | 0 | 73.6 | 65 | 133 | 14.3 | 30 | |
| 1,3-Dichlorobenzene | 0.0188 | 0.00547 | 0.0254 | 0 | 74.2 | 72 | 124 | 14.4 | 30 | |
| 1,3-Dichloropropane | 0.0220 | 0.00547 | 0.0254 | 0 | 86.8 | 76 | 123 | 6.79 | 30 | |
| 1,4-Dichlorobenzene | 0.0206 | 0.00547 | 0.0254 | 0 | 81.3 | 72 | 125 | 8.67 | 30 | |
| 1-Chlorohexane | 0.0169 | 0.00547 | 0.0254 | 0 | 66.5 | 60 | 135 | 11.2 | 30 | |
| 2,2-Dichloropropane | 0.0196 | 0.00547 | 0.0254 | 0 | 77.4 | 67 | 134 | 6.57 | 30 | |
| 2-Butanone | 0.258 | 0.0164 | 0.254 | 0 | 102 | 60 | 135 | 2.61 | 30 | |
| 2-Chlorotoluene | 0.0174 | 0.00547 | 0.0254 | 0 | 68.5 | 69 | 128 | 14.6 | 30 | |
| 2-Hexanone | 0.247 | 0.0164 | 0.254 | 0 | 97.5 | 50 | 150 | 8.65 | 30 | |
| 4-Chlorotoluene | 0.0176 | 0.00547 | 0.0254 | 0 | 69.3 | 73 | 126 | 15.0 | 30 | S |
| 4-Methyl-2-pentanone | 0.249 | 0.0164 | 0.254 | 0 | 98.3 | 60 | 135 | 3.27 | 30 | |
| Acetone | 0.257 | 0.0547 | 0.254 | 0 | 101 | 40 | 141 | 3.57 | 30 | |
| Benzene | 0.0214 | 0.00547 | 0.0254 | 0 | 84.4 | 73 | 126 | 8.97 | 30 | |
| Bromobenzene | 0.0202 | 0.00547 | 0.0254 | 0 | 79.6 | 66 | 121 | 14.8 | 30 | |
| Bromochloromethane | 0.0247 | 0.00547 | 0.0254 | 0 | 97.4 | 71 | 127 | 9.46 | 30 | |
| Bromodichloromethane | 0.0203 | 0.00547 | 0.0254 | 0 | 79.9 | 72 | 128 | 8.25 | 30 | |
| Bromoform | 0.0218 | 0.00547 | 0.0254 | 0 | 85.9 | 66 | 137 | 8.43 | 30 | |
| Bromomethane | 0.0206 | 0.00547 | 0.0254 | 0 | 81.3 | 45 | 141 | 6.17 | 30 | |
| Carbon disulfide | 0.0177 | 0.0164 | 0.0254 | 0 | 69.7 | 50 | 150 | 8.59 | 30 | |
| Carbon tetrachloride | 0.0186 | 0.00547 | 0.0254 | 0 | 73.2 | 67 | 133 | 6.20 | 30 | |
| Chlorobenzene | 0.0205 | 0.00547 | 0.0254 | 0 | 80.9 | 75 | 123 | 9.71 | 30 | |
| Chloroethane | 0.0226 | 0.00547 | 0.0254 | 0 | 89.1 | 41 | 141 | 6.15 | 30 | |
| Chloroform | 0.0215 | 0.00547 | 0.0254 | 0 | 84.6 | 72 | 124 | 9.40 | 30 | |
| Chloromethane | 0.0193 | 0.00547 | 0.0254 | 0 | 76.1 | 51 | 129 | 8.80 | 30 | |
| cis-1,2-Dichloroethene | 0.0229 | 0.00547 | 0.0254 | 0 | 90.1 | 67 | 125 | 5.09 | 30 | |
| cis-1,3-Dichloropropene | 0.0207 | 0.00547 | 0.0254 | 0 | 81.6 | 72 | 126 | 8.20 | 30 | |
| Cyclohexane | 0.0195 | 0.0164 | 0.0254 | 0 | 76.7 | 40 | 158 | 11.6 | 30 | N |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_220914A

| Sample ID: 2209090-10AMSD | Batch ID: 107035 | TestNo: SW8260D | | Units: mg/Kg-dry | |
|-----------------------------|-----------------------|-------------------------------------|-----------|------------------|--|
| SampType: MSD | Run ID: GCMS2_220914A | Analysis Date: 9/14/2022 5:06:00 PM | | | Prep Date: 9/14/2022 |
| Analyte | Result | RL | SPK value | Ref Val | %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Dibromochloromethane | 0.0208 | 0.00547 | 0.0254 | 0 | 81.9 66 130 9.01 30 |
| Dibromomethane | 0.0237 | 0.00547 | 0.0254 | 0 | 93.5 73 128 5.63 30 |
| Dichlorodifluoromethane | 0.0144 | 0.00547 | 0.0254 | 0 | 56.7 34 136 8.16 30 |
| Ethylbenzene | 0.0194 | 0.00547 | 0.0254 | 0 | 76.6 74 127 10.8 30 |
| Hexachlorobutadiene | 0.0186 | 0.00547 | 0.0254 | 0 | 73.4 53 142 16.5 30 |
| Isopropylbenzene | 0.0190 | 0.00547 | 0.0254 | 0 | 75.0 77 129 19.4 30 S |
| m,p-Xylene | 0.0390 | 0.00547 | 0.0507 | 0 | 76.8 79 126 13.0 30 S |
| Methyl Acetate | 0.0267 | 0.0164 | 0.0254 | 0 | 105 50 150 3.71 30 |
| Methyl tert-butyl ether | 0.0254 | 0.00547 | 0.0254 | 0 | 100 50 135 4.52 30 |
| Methylcyclohexane | 0.0175 | 0.0164 | 0.0254 | 0 | 69.1 50 150 12.6 30 |
| Methylene chloride | 0.0286 | 0.00547 | 0.0254 | 0.00699 | 85.1 63 137 6.33 30 |
| Naphthalene | 0.0150 | 0.0164 | 0.0254 | 0 | 59.1 51 135 31.5 30 R |
| n-Butylbenzene | 0.0170 | 0.00547 | 0.0254 | 0 | 66.9 65 138 14.0 30 |
| n-Propylbenzene | 0.0174 | 0.00547 | 0.0254 | 0 | 68.6 63 135 20.1 30 |
| o-Xylene | 0.0191 | 0.00547 | 0.0254 | 0 | 75.4 77 125 16.9 30 S |
| p-Isopropyltoluene | 0.0185 | 0.00547 | 0.0254 | 0 | 72.8 75 133 17.2 30 S |
| sec-Butylbenzene | 0.0181 | 0.00547 | 0.0254 | 0 | 71.2 63 132 16.8 30 |
| Styrene | 0.0204 | 0.00547 | 0.0254 | 0 | 80.5 74 128 8.28 30 |
| tert-Butylbenzene | 0.0183 | 0.00547 | 0.0254 | 0 | 72.3 65 132 12.2 30 |
| Tetrachloroethene | 0.0208 | 0.00547 | 0.0254 | 0 | 82.0 67 139 9.97 30 |
| Toluene | 0.0218 | 0.00547 | 0.0254 | 0.00112 | 81.4 71 127 2.90 30 |
| trans-1,2-Dichloroethene | 0.0214 | 0.00547 | 0.0254 | 0 | 84.4 66 134 12.6 30 |
| trans-1,3-Dichloropropene | 0.0208 | 0.00547 | 0.0254 | 0 | 81.9 65 127 4.90 30 |
| Trichloroethene | 0.0209 | 0.00547 | 0.0254 | 0 | 82.4 77 124 10.4 30 |
| Trichlorofluoromethane | 0.0193 | 0.0164 | 0.0254 | 0 | 76.3 49 139 8.96 30 |
| Vinyl chloride | 0.0194 | 0.00547 | 0.0254 | 0 | 76.6 58 126 7.19 30 |
| Xylenes, Total | 0.0581 | 0.00547 | 0.0761 | 0 | 76.4 75 125 14.3 30 |
| Surr: 1,2-Dichloroethane-d4 | 53.8 | | 54.68 | | 98.4 52 149 0 0 |
| Surr: 4-Bromofluorobenzene | 50.1 | | 54.68 | | 91.7 84 118 0 0 |
| Surr: Dibromofluoromethane | 56.3 | | 54.68 | | 103 65 135 0 0 |
| Surr: Toluene-d8 | 52.9 | | 54.68 | | 96.7 84 116 0 0 |

| Sample ID: MB-107035 | Batch ID: 107035 | TestNo: SW8260D | | Units: mg/Kg | |
|--------------------------------|-----------------------|-------------------------------------|-----------|--------------|--|
| SampType: MBLK | Run ID: GCMS2_220914A | Analysis Date: 9/14/2022 6:02:00 PM | | | Prep Date: 9/14/2022 |
| Analyte | Result | RL | SPK value | Ref Val | %REC LowLimit HighLimit %RPD RPDLimit Qual |
| 1,1,1,2-Tetrachloroethane | <0.00100 | 0.00500 | | | |
| 1,1,1-Trichloroethane | <0.00100 | 0.00500 | | | |
| 1,1,2,2-Tetrachloroethane | <0.00100 | 0.00500 | | | |
| 1,1,2-Trichloroethane | <0.00100 | 0.00500 | | | |
| 1,1,2-Trichlorotrifluoroethane | <0.00500 | 0.0150 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_220914A

| Sample ID: MB-107035 | Batch ID: 107035 | TestNo: SW8260D | Units: mg/Kg | | | | | | | |
|-----------------------------|-----------------------|-------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: GCMS2_220914A | Analysis Date: 9/14/2022 6:02:00 PM | Prep Date: 9/14/2022 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethane | <0.00100 | 0.00500 | | | | | | | | |
| 1,1-Dichloroethylene | <0.00100 | 0.00500 | | | | | | | | |
| 1,1-Dichloropropene | <0.00100 | 0.00500 | | | | | | | | |
| 1,2,3-Trichlorobenzene | <0.00100 | 0.00500 | | | | | | | | |
| 1,2,3-Trichloropropane | <0.00100 | 0.00500 | | | | | | | | |
| 1,2,4-Trichlorobenzene | <0.00100 | 0.00500 | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.00100 | 0.00500 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | <0.00100 | 0.00500 | | | | | | | | |
| 1,2-Dibromoethane | <0.00100 | 0.00500 | | | | | | | | |
| 1,2-Dichlorobenzene | <0.00100 | 0.00500 | | | | | | | | |
| 1,2-Dichloroethane | <0.00100 | 0.00500 | | | | | | | | |
| 1,2-Dichloropropene | <0.00100 | 0.00500 | | | | | | | | |
| 1,3,5-Trimethylbenzene | <0.00100 | 0.00500 | | | | | | | | |
| 1,3-Dichlorobenzene | <0.00100 | 0.00500 | | | | | | | | |
| 1,3-Dichloropropane | <0.00100 | 0.00500 | | | | | | | | |
| 1,4-Dichlorobenzene | <0.00100 | 0.00500 | | | | | | | | |
| 1-Chlorohexane | <0.00100 | 0.00500 | | | | | | | | |
| 2,2-Dichloropropane | <0.00100 | 0.00500 | | | | | | | | |
| 2-Butanone | <0.00500 | 0.0150 | | | | | | | | |
| 2-Chlorotoluene | <0.00100 | 0.00500 | | | | | | | | |
| 2-Hexanone | <0.00500 | 0.0150 | | | | | | | | |
| 4-Chlorotoluene | <0.00100 | 0.00500 | | | | | | | | |
| 4-Methyl-2-pentanone | <0.00500 | 0.0150 | | | | | | | | |
| Acetone | <0.0150 | 0.0500 | | | | | | | | |
| Benzene | <0.00100 | 0.00500 | | | | | | | | |
| Bromobenzene | <0.00100 | 0.00500 | | | | | | | | |
| Bromochloromethane | <0.00100 | 0.00500 | | | | | | | | |
| Bromodichloromethane | <0.00100 | 0.00500 | | | | | | | | |
| Bromoform | <0.00100 | 0.00500 | | | | | | | | |
| Bromomethane | <0.00100 | 0.00500 | | | | | | | | |
| Carbon disulfide | <0.00500 | 0.0150 | | | | | | | | |
| Carbon tetrachloride | <0.00100 | 0.00500 | | | | | | | | |
| Chlorobenzene | <0.00100 | 0.00500 | | | | | | | | |
| Chloroethane | <0.00100 | 0.00500 | | | | | | | | |
| Chloroform | <0.00100 | 0.00500 | | | | | | | | |
| Chloromethane | <0.00100 | 0.00500 | | | | | | | | |
| cis-1,2-Dichloroethylene | <0.00100 | 0.00500 | | | | | | | | |
| cis-1,3-Dichloropropene | <0.00100 | 0.00500 | | | | | | | | |
| Cyclohexane | <0.00500 | 0.0150 | | | | | | | | N |
| Dibromochloromethane | <0.00100 | 0.00500 | | | | | | | | |
| Dibromomethane | <0.00100 | 0.00500 | | | | | | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_220914A

| Sample ID: MB-107035 | Batch ID: 107035 | TestNo: SW8260D | Units: mg/Kg | | | | | | | |
|-----------------------------|-----------------------|-------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: GCMS2_220914A | Analysis Date: 9/14/2022 6:02:00 PM | Prep Date: 9/14/2022 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Dichlorodifluoromethane | <0.00100 | 0.00500 | | | | | | | | |
| Ethylbenzene | <0.00100 | 0.00500 | | | | | | | | |
| Hexachlorobutadiene | <0.00100 | 0.00500 | | | | | | | | |
| Isopropylbenzene | <0.00100 | 0.00500 | | | | | | | | |
| m,p-Xylene | <0.00100 | 0.00500 | | | | | | | | |
| Methyl Acetate | <0.00500 | 0.0150 | | | | | | | | |
| Methyl tert-butyl ether | <0.00100 | 0.00500 | | | | | | | | |
| Methylcyclohexane | <0.00500 | 0.0150 | | | | | | | | |
| Methylene chloride | <0.00500 | 0.00500 | | | | | | | | |
| Naphthalene | <0.00500 | 0.0150 | | | | | | | | |
| n-Butylbenzene | <0.00100 | 0.00500 | | | | | | | | |
| n-Propylbenzene | <0.00100 | 0.00500 | | | | | | | | |
| o-Xylene | <0.00100 | 0.00500 | | | | | | | | |
| p-Isopropyltoluene | <0.00100 | 0.00500 | | | | | | | | |
| sec-Butylbenzene | <0.00100 | 0.00500 | | | | | | | | |
| Styrene | <0.00100 | 0.00500 | | | | | | | | |
| tert-Butylbenzene | <0.00100 | 0.00500 | | | | | | | | |
| Tetrachloroethene | <0.00100 | 0.00500 | | | | | | | | |
| Toluene | <0.00100 | 0.00500 | | | | | | | | |
| trans-1,2-Dichloroethene | <0.00100 | 0.00500 | | | | | | | | |
| trans-1,3-Dichloropropene | <0.00100 | 0.00500 | | | | | | | | |
| Trichloroethene | <0.00100 | 0.00500 | | | | | | | | |
| Trichlorofluoromethane | <0.00500 | 0.0150 | | | | | | | | |
| Vinyl chloride | <0.00100 | 0.00500 | | | | | | | | |
| Xlenes, Total | <0.00100 | 0.00500 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 44.5 | 50.00 | | 88.9 | 52 | 149 | | | | |
| Surr: 4-Bromofluorobenzene | 48.7 | 50.00 | | 97.5 | 84 | 118 | | | | |
| Surr: Dibromofluoromethane | 51.2 | 50.00 | | 102 | 65 | 135 | | | | |
| Surr: Toluene-d8 | 47.0 | 50.00 | | 93.9 | 84 | 116 | | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_220914A

| Sample ID: ICV-220914 | Batch ID: R123082 | TestNo: SW8260D | | Units: | mg/Kg | | | | | |
|--------------------------------|-----------------------|-------------------------------------|-----------|---------|------------|----------|-----------|------|----------|------|
| SampType: ICV | Run ID: GCMS2_220914A | Analysis Date: 9/14/2022 3:39:00 PM | | | Prep Date: | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 0.0364 | 0.00500 | 0.0464 | 0 | 78.5 | 70 | 130 | | | |
| 1,1,1-Trichloroethane | 0.0376 | 0.00500 | 0.0464 | 0 | 80.9 | 70 | 130 | | | |
| 1,1,2,2-Tetrachloroethane | 0.0354 | 0.00500 | 0.0464 | 0 | 76.3 | 70 | 130 | | | |
| 1,1,2-Trichloroethane | 0.0400 | 0.00500 | 0.0464 | 0 | 86.3 | 70 | 130 | | | |
| 1,1,2-Trichlorotrifluoroethane | 0.0390 | 0.0150 | 0.0464 | 0 | 84.2 | 70 | 130 | | | |
| 1,1-Dichloroethane | 0.0398 | 0.00500 | 0.0464 | 0 | 85.9 | 70 | 130 | | | |
| 1,1-Dichloroethene | 0.0359 | 0.00500 | 0.0464 | 0 | 77.3 | 70 | 130 | | | |
| 1,1-Dichloropropene | 0.0388 | 0.00500 | 0.0464 | 0 | 83.6 | 70 | 130 | | | |
| 1,2,3-Trichlorobenzene | 0.0346 | 0.00500 | 0.0464 | 0 | 74.5 | 70 | 130 | | | |
| 1,2,3-Trichloropropane | 0.0341 | 0.00500 | 0.0464 | 0 | 73.4 | 70 | 130 | | | |
| 1,2,4-Trichlorobenzene | 0.0359 | 0.00500 | 0.0464 | 0 | 77.3 | 70 | 130 | | | |
| 1,2,4-Trimethylbenzene | 0.0356 | 0.00500 | 0.0464 | 0 | 76.7 | 70 | 130 | | | |
| 1,2-Dibromo-3-chloropropane | 0.0281 | 0.00500 | 0.0464 | 0 | 60.6 | 70 | 130 | | | S |
| 1,2-Dibromoethane | 0.0381 | 0.00500 | 0.0464 | 0 | 82.2 | 70 | 130 | | | |
| 1,2-Dichlorobenzene | 0.0382 | 0.00500 | 0.0464 | 0 | 82.3 | 70 | 130 | | | |
| 1,2-Dichloroethane | 0.0352 | 0.00500 | 0.0464 | 0 | 75.8 | 70 | 130 | | | |
| 1,2-Dichloropropane | 0.0391 | 0.00500 | 0.0464 | 0 | 84.4 | 70 | 130 | | | |
| 1,3,5-Trimethylbenzene | 0.0361 | 0.00500 | 0.0464 | 0 | 77.7 | 70 | 130 | | | |
| 1,3-Dichlorobenzene | 0.0379 | 0.00500 | 0.0464 | 0 | 81.7 | 70 | 130 | | | |
| 1,3-Dichloropropane | 0.0380 | 0.00500 | 0.0464 | 0 | 82.0 | 70 | 130 | | | |
| 1,4-Dichlorobenzene | 0.0369 | 0.00500 | 0.0464 | 0 | 79.4 | 70 | 130 | | | |
| 1-Chlorohexane | 0.0321 | 0.00500 | 0.0464 | 0 | 69.3 | 70 | 130 | | | S |
| 2,2-Dichloropropane | 0.0399 | 0.00500 | 0.0464 | 0 | 86.0 | 70 | 130 | | | |
| 2-Butanone | 0.370 | 0.0150 | 0.464 | 0 | 79.7 | 70 | 130 | | | |
| 2-Chlorotoluene | 0.0354 | 0.00500 | 0.0464 | 0 | 76.4 | 70 | 130 | | | |
| 2-Hexanone | 0.354 | 0.0150 | 0.464 | 0 | 76.2 | 70 | 130 | | | |
| 4-Chlorotoluene | 0.0352 | 0.00500 | 0.0464 | 0 | 75.8 | 70 | 130 | | | |
| 4-Methyl-2-pentanone | 0.358 | 0.0150 | 0.464 | 0 | 77.1 | 70 | 130 | | | |
| Acetone | 0.362 | 0.0500 | 0.464 | 0 | 78.0 | 70 | 130 | | | |
| Benzene | 0.0396 | 0.00500 | 0.0464 | 0 | 85.3 | 70 | 130 | | | |
| Bromobenzene | 0.0392 | 0.00500 | 0.0464 | 0 | 84.4 | 70 | 130 | | | |
| Bromochloromethane | 0.0452 | 0.00500 | 0.0464 | 0 | 97.5 | 70 | 130 | | | |
| Bromodichloromethane | 0.0387 | 0.00500 | 0.0464 | 0 | 83.4 | 70 | 130 | | | |
| Bromoform | 0.0376 | 0.00500 | 0.0464 | 0 | 80.9 | 70 | 130 | | | |
| Bromomethane | 0.0421 | 0.00500 | 0.0464 | 0 | 90.8 | 70 | 130 | | | |
| Carbon disulfide | 0.0340 | 0.0150 | 0.0464 | 0 | 73.3 | 70 | 130 | | | |
| Carbon tetrachloride | 0.0351 | 0.00500 | 0.0464 | 0 | 75.7 | 70 | 130 | | | |
| Chlorobenzene | 0.0389 | 0.00500 | 0.0464 | 0 | 83.8 | 70 | 130 | | | |
| Chloroethane | 0.0436 | 0.00500 | 0.0464 | 0 | 94.0 | 70 | 130 | | | |
| Chloroform | 0.0397 | 0.00500 | 0.0464 | 0 | 85.5 | 70 | 130 | | | |
| Chloromethane | 0.0378 | 0.00500 | 0.0464 | 0 | 81.4 | 70 | 130 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_220914A

| Sample ID: ICV-220914 | Batch ID: R123082 | TestNo: SW8260D | Units: mg/Kg | | | | | | | |
|-----------------------------|-----------------------|-------------------------------------|--------------|---------|------|----------|-----------|------|----------|------|
| SampType: ICV | Run ID: GCMS2_220914A | Analysis Date: 9/14/2022 3:39:00 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| cis-1,2-Dichloroethene | 0.0423 | 0.00500 | 0.0464 | 0 | 91.2 | 70 | 130 | | | |
| cis-1,3-Dichloropropene | 0.0388 | 0.00500 | 0.0464 | 0 | 83.6 | 70 | 130 | | | |
| Cyclohexane | 0.0380 | 0.0150 | 0.0464 | 0 | 82.0 | 70 | 130 | | | N |
| Dibromochloromethane | 0.0372 | 0.00500 | 0.0464 | 0 | 80.2 | 70 | 130 | | | |
| Dibromomethane | 0.0397 | 0.00500 | 0.0464 | 0 | 85.6 | 70 | 130 | | | |
| Dichlorodifluoromethane | 0.0275 | 0.00500 | 0.0464 | 0 | 59.3 | 70 | 130 | | | S |
| Ethylbenzene | 0.0379 | 0.00500 | 0.0464 | 0 | 81.7 | 70 | 130 | | | |
| Hexachlorobutadiene | 0.0361 | 0.00500 | 0.0464 | 0 | 77.8 | 70 | 130 | | | |
| Isopropylbenzene | 0.0384 | 0.00500 | 0.0464 | 0 | 82.8 | 70 | 130 | | | |
| m,p-Xylene | 0.0762 | 0.00500 | 0.0928 | 0 | 82.2 | 70 | 130 | | | |
| Methyl Acetate | 0.0383 | 0.0150 | 0.0464 | 0 | 82.6 | 70 | 130 | | | |
| Methyl tert-butyl ether | 0.0419 | 0.00500 | 0.0464 | 0 | 90.3 | 70 | 130 | | | |
| Methylcyclohexane | 0.0336 | 0.0150 | 0.0464 | 0 | 72.5 | 70 | 130 | | | |
| Methylene chloride | 0.0465 | 0.00500 | 0.0464 | 0 | 100 | 70 | 130 | | | |
| Naphthalene | 0.0278 | 0.0150 | 0.0464 | 0 | 59.9 | 70 | 130 | | | S |
| n-Butylbenzene | 0.0328 | 0.00500 | 0.0464 | 0 | 70.7 | 70 | 130 | | | |
| n-Propylbenzene | 0.0365 | 0.00500 | 0.0464 | 0 | 78.6 | 70 | 130 | | | |
| o-Xylene | 0.0391 | 0.00500 | 0.0464 | 0 | 84.2 | 70 | 130 | | | |
| p-Isopropyltoluene | 0.0349 | 0.00500 | 0.0464 | 0 | 75.2 | 70 | 130 | | | |
| sec-Butylbenzene | 0.0362 | 0.00500 | 0.0464 | 0 | 78.0 | 70 | 130 | | | |
| Styrene | 0.0415 | 0.00500 | 0.0464 | 0 | 89.5 | 70 | 130 | | | |
| tert-Butylbenzene | 0.0353 | 0.00500 | 0.0464 | 0 | 76.0 | 70 | 130 | | | |
| Tetrachloroethene | 0.0404 | 0.00500 | 0.0464 | 0 | 87.0 | 70 | 130 | | | |
| Toluene | 0.0396 | 0.00500 | 0.0464 | 0 | 85.4 | 70 | 130 | | | |
| trans-1,2-Dichloroethene | 0.0422 | 0.00500 | 0.0464 | 0 | 90.9 | 70 | 130 | | | |
| trans-1,3-Dichloropropene | 0.0382 | 0.00500 | 0.0464 | 0 | 82.4 | 70 | 130 | | | |
| Trichloroethene | 0.0392 | 0.00500 | 0.0464 | 0 | 84.4 | 70 | 130 | | | |
| Trichlorofluoromethane | 0.0372 | 0.0150 | 0.0464 | 0 | 80.2 | 70 | 130 | | | |
| Vinyl chloride | 0.0366 | 0.00500 | 0.0464 | 0 | 78.9 | 70 | 130 | | | |
| Xylenes, Total | 0.115 | 0.00500 | 0.139 | 0 | 82.8 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 42.1 | | 50.00 | | 84.2 | 52 | 149 | | | |
| Surr: 4-Bromofluorobenzene | 46.3 | | 50.00 | | 92.5 | 84 | 118 | | | |
| Surr: Dibromofluoromethane | 49.5 | | 50.00 | | 99.0 | 65 | 135 | | | |
| Surr: Toluene-d8 | 46.9 | | 50.00 | | 93.7 | 84 | 116 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_220811A

| Sample ID: DCS2-106569 | Batch ID: 106569 | TestNo: SW8260D | | Units: | mg/L | | | | | |
|--------------------------------|-----------------------|--------------------------------------|-----------|---------|------------|-----------|-----------|------|---------------|--|
| SampType: DCS2 | Run ID: GCMS5_220811A | Analysis Date: 8/11/2022 12:50:00 PM | | | Prep Date: | 8/11/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit Qual | |
| 1,2,3-Trichlorobenzene | 0.00239 | 0.00500 | 0.00186 | 0 | 128 | 10 | 400 | 0 | 0 | |
| 1,2,4-Trichlorobenzene | 0.00209 | 0.00500 | 0.00186 | 0 | 113 | 10 | 400 | 0 | 0 | |
| 1,2,4-Trimethylbenzene | 0.00175 | 0.00500 | 0.00186 | 0 | 94.1 | 10 | 400 | 0 | 0 | |
| 1,2-Dibromo-3-chloropropane | 0.00186 | 0.0100 | 0.00186 | 0 | 99.9 | 10 | 400 | 0 | 0 | |
| 1,3,5-Trimethylbenzene | 0.00171 | 0.00500 | 0.00186 | 0 | 92.0 | 10 | 400 | 0 | 0 | |
| 1-Chlorohexane | 0.00181 | 0.00500 | 0.00186 | 0 | 97.1 | 10 | 400 | 0 | 0 | |
| Hexachlorobutadiene | 0.00205 | 0.00300 | 0.00186 | 0 | 110 | 10 | 400 | 0 | 0 | |
| Methylene chloride | 0.00180 | 0.00250 | 0.00186 | 0 | 96.6 | 10 | 400 | 0 | 0 | |
| Naphthalene | 0.00247 | 0.0150 | 0.00186 | 0 | 133 | 10 | 400 | 0 | 0 | |
| Sample ID: DCS-106569 | Batch ID: 106569 | TestNo: SW8260D | | Units: | mg/L | | | | | |
| SampType: DCS | Run ID: GCMS5_220811A | Analysis Date: 8/11/2022 3:51:00 PM | | | Prep Date: | 8/11/2022 | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit Qual | |
| 1,1,1,2-Tetrachloroethane | 0.000472 | 0.00100 | 0.000464 | 0 | 102 | 10 | 400 | 0 | 0 | |
| 1,1,1-Trichloroethane | 0.000451 | 0.00100 | 0.000464 | 0 | 97.2 | 10 | 400 | 0 | 0 | |
| 1,1,2,2-Tetrachloroethane | 0.000479 | 0.00100 | 0.000464 | 0 | 103 | 10 | 400 | 0 | 0 | |
| 1,1,2-Trichloroethane | 0.000469 | 0.00100 | 0.000464 | 0 | 101 | 10 | 400 | 0 | 0 | |
| 1,1,2-Trichlorotrifluoroethane | 0.00943 | 0.0150 | 0.00928 | 0 | 102 | 10 | 400 | 0 | 0 | |
| 1,1-Dichloroethane | 0.000490 | 0.00100 | 0.000464 | 0 | 106 | 10 | 400 | 0 | 0 | |
| 1,1-Dichloroethene | 0.000510 | 0.00100 | 0.000464 | 0 | 110 | 10 | 400 | 0 | 0 | |
| 1,1-Dichloropropene | 0.000455 | 0.00100 | 0.000464 | 0 | 98.1 | 10 | 400 | 0 | 0 | |
| 1,2,3-Trichloropropane | 0.000488 | 0.00100 | 0.000464 | 0 | 105 | 10 | 400 | 0 | 0 | |
| 1,2-Dibromoethane | 0.000475 | 0.00100 | 0.000464 | 0 | 102 | 10 | 400 | 0 | 0 | |
| 1,2-Dichlorobenzene | 0.000478 | 0.00100 | 0.000464 | 0 | 103 | 10 | 400 | 0 | 0 | |
| 1,2-Dichloroethane | 0.000534 | 0.00100 | 0.000464 | 0 | 115 | 10 | 400 | 0 | 0 | |
| 1,2-Dichloropropane | 0.000436 | 0.00100 | 0.000464 | 0 | 94.0 | 10 | 400 | 0 | 0 | |
| 1,3-Dichlorobenzene | 0.000504 | 0.00100 | 0.000464 | 0 | 109 | 10 | 400 | 0 | 0 | |
| 1,3-Dichloropropane | 0.000506 | 0.00100 | 0.000464 | 0 | 109 | 10 | 400 | 0 | 0 | |
| 1,4-Dichlorobenzene | 0.000506 | 0.00100 | 0.000464 | 0 | 109 | 10 | 400 | 0 | 0 | |
| 2,2-Dichloropropane | 0.000494 | 0.00100 | 0.000464 | 0 | 106 | 10 | 400 | 0 | 0 | |
| 2-Butanone | 0.00880 | 0.0150 | 0.00928 | 0 | 94.8 | 10 | 400 | 0 | 0 | |
| 2-Chlorotoluene | 0.000484 | 0.00100 | 0.000464 | 0 | 104 | 10 | 400 | 0 | 0 | |
| 2-Hexanone | 0.00867 | 0.0150 | 0.00928 | 0 | 93.4 | 10 | 400 | 0 | 0 | |
| 4-Chlorotoluene | 0.000480 | 0.00100 | 0.000464 | 0 | 103 | 10 | 400 | 0 | 0 | |
| 4-Methyl-2-pentanone | 0.00880 | 0.0150 | 0.00928 | 0 | 94.9 | 10 | 400 | 0 | 0 | |
| Acetone | 0.00923 | 0.0150 | 0.00928 | 0 | 99.4 | 10 | 400 | 0 | 0 | |
| Benzene | 0.000480 | 0.00100 | 0.000464 | 0 | 103 | 10 | 400 | 0 | 0 | |
| Bromobenzene | 0.000472 | 0.00100 | 0.000464 | 0 | 102 | 10 | 400 | 0 | 0 | |
| Bromochloromethane | 0.000462 | 0.00100 | 0.000464 | 0 | 99.6 | 10 | 400 | 0 | 0 | |
| Bromodichloromethane | 0.000459 | 0.00100 | 0.000464 | 0 | 98.9 | 10 | 400 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_220811A

| Sample ID: DCS-106569 | Batch ID: 106569 | TestNo: SW8260D | | Units: mg/L | | | | | | |
|---------------------------|-----------------------|-------------------------------------|-----------|-------------|----------------------|----------|-----------|------|----------|------|
| SampType: DCS | Run ID: GCMS5_220811A | Analysis Date: 8/11/2022 3:51:00 PM | | | Prep Date: 8/11/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Bromoform | 0.000400 | 0.00100 | 0.000464 | 0 | 86.2 | 10 | 400 | 0 | 0 | |
| Bromomethane | 0.00166 | 0.00100 | 0.000464 | 0 | 357 | 10 | 400 | 0 | 0 | |
| Carbon disulfide | 0.00926 | 0.0150 | 0.00928 | 0 | 99.8 | 10 | 400 | 0 | 0 | |
| Carbon tetrachloride | 0.000467 | 0.00100 | 0.000464 | 0 | 101 | 10 | 400 | 0 | 0 | |
| Chlorobenzene | 0.000489 | 0.00100 | 0.000464 | 0 | 105 | 10 | 400 | 0 | 0 | |
| Chloroethane | 0.000541 | 0.00100 | 0.000464 | 0 | 117 | 10 | 400 | 0 | 0 | |
| Chloroform | 0.000437 | 0.00100 | 0.000464 | 0 | 94.2 | 10 | 400 | 0 | 0 | |
| Chloromethane | 0.000593 | 0.00100 | 0.000464 | 0 | 128 | 10 | 400 | 0 | 0 | |
| cis-1,2-Dichloroethene | 0.000465 | 0.00100 | 0.000464 | 0 | 100 | 10 | 400 | 0 | 0 | |
| cis-1,3-Dichloropropene | 0.000452 | 0.00100 | 0.000464 | 0 | 97.4 | 10 | 400 | 0 | 0 | |
| Cyclohexane | 0.00882 | 0.0150 | 0.00928 | 0 | 95.0 | 10 | 400 | 0 | 0 | N |
| Dibromochloromethane | 0.000434 | 0.00100 | 0.000464 | 0 | 93.5 | 10 | 400 | 0 | 0 | |
| Dibromomethane | 0.000453 | 0.00100 | 0.000464 | 0 | 97.6 | 10 | 400 | 0 | 0 | |
| Dichlorodifluoromethane | 0.000454 | 0.00100 | 0.000464 | 0 | 97.8 | 10 | 400 | 0 | 0 | |
| Ethylbenzene | 0.000490 | 0.00100 | 0.000464 | 0 | 106 | 10 | 400 | 0 | 0 | |
| Isopropylbenzene | 0.000458 | 0.00100 | 0.000464 | 0 | 98.7 | 10 | 400 | 0 | 0 | |
| m,p-Xylene | 0.000903 | 0.00200 | 0.000928 | 0 | 97.3 | 10 | 400 | 0 | 0 | |
| Methyl Acetate | 0.00885 | 0.0150 | 0.00928 | 0 | 95.4 | 10 | 400 | 0 | 0 | |
| Methyl tert-butyl ether | 0.000448 | 0.00100 | 0.000464 | 0 | 96.6 | 10 | 400 | 0 | 0 | |
| Methylcyclohexane | 0.00890 | 0.0150 | 0.00928 | 0 | 95.9 | 10 | 400 | 0 | 0 | |
| n-Butylbenzene | 0.000437 | 0.00100 | 0.000464 | 0 | 94.2 | 10 | 400 | 0 | 0 | |
| n-Propylbenzene | 0.000477 | 0.00100 | 0.000464 | 0 | 103 | 10 | 400 | 0 | 0 | |
| o-Xylene | 0.000455 | 0.00100 | 0.000464 | 0 | 98.1 | 10 | 400 | 0 | 0 | |
| p-Isopropyltoluene | 0.000460 | 0.00100 | 0.000464 | 0 | 99.1 | 10 | 400 | 0 | 0 | |
| sec-Butylbenzene | 0.000457 | 0.00100 | 0.000464 | 0 | 98.5 | 10 | 400 | 0 | 0 | |
| Styrene | 0.000424 | 0.00100 | 0.000464 | 0 | 91.4 | 10 | 400 | 0 | 0 | |
| tert-Butylbenzene | 0.000468 | 0.00100 | 0.000464 | 0 | 101 | 10 | 400 | 0 | 0 | |
| Tetrachloroethene | 0.000477 | 0.00200 | 0.000464 | 0 | 103 | 10 | 400 | 0 | 0 | |
| Toluene | 0.000468 | 0.00200 | 0.000464 | 0 | 101 | 10 | 400 | 0 | 0 | |
| trans-1,2-Dichloroethene | 0.000467 | 0.00100 | 0.000464 | 0 | 101 | 10 | 400 | 0 | 0 | |
| trans-1,3-Dichloropropene | 0.000465 | 0.00100 | 0.000464 | 0 | 100 | 10 | 400 | 0 | 0 | |
| Trichloroethene | 0.000472 | 0.00100 | 0.000464 | 0 | 102 | 10 | 400 | 0 | 0 | |
| Trichlorofluoromethane | 0.000478 | 0.00100 | 0.000464 | 0 | 103 | 10 | 400 | 0 | 0 | |
| Vinyl chloride | 0.000466 | 0.00100 | 0.000464 | 0 | 100 | 10 | 400 | 0 | 0 | |
| Total Xylenes | 0.00136 | 0.00100 | 0.00139 | 0 | 97.6 | 10 | 400 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_220913A

The QC data in batch 107009 applies to the following samples: 2209090-53A, 2209090-54A

| Sample ID: LCS-107009 | Batch ID: 107009 | TestNo: | SW8260D | | Units: | mg/L | | | | |
|--------------------------------|-----------------------|---------|--------------------------------------|---------|--------|------------|-----------|------|----------|------|
| SampType: LCS | Run ID: GCMS5_220913A | | Analysis Date: 9/13/2022 10:03:00 AM | | | Prep Date: | 9/13/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 0.0240 | 0.00100 | 0.0232 | 0 | 103 | 81 | 129 | | | |
| 1,1,1-Trichloroethane | 0.0264 | 0.00100 | 0.0232 | 0 | 114 | 67 | 132 | | | |
| 1,1,2,2-Tetrachloroethane | 0.0211 | 0.00100 | 0.0232 | 0 | 90.9 | 63 | 128 | | | |
| 1,1,2-Trichloroethane | 0.0269 | 0.00100 | 0.0232 | 0 | 116 | 75 | 125 | | | |
| 1,1,2-Trichlorotrifluoroethane | 0.0279 | 0.0150 | 0.0232 | 0 | 120 | 67 | 125 | | | |
| 1,1-Dichloroethane | 0.0270 | 0.00100 | 0.0232 | 0 | 117 | 69 | 133 | | | |
| 1,1-Dichloroethene | 0.0267 | 0.00100 | 0.0232 | 0 | 115 | 68 | 130 | | | |
| 1,1-Dichloropropene | 0.0268 | 0.00100 | 0.0232 | 0 | 116 | 73 | 132 | | | |
| 1,2,3-Trichlorobenzene | 0.0236 | 0.00500 | 0.0232 | 0 | 102 | 67 | 137 | | | |
| 1,2,3-Trichloropropane | 0.0209 | 0.00100 | 0.0232 | 0 | 90.1 | 73 | 124 | | | |
| 1,2,4-Trichlorobenzene | 0.0234 | 0.00500 | 0.0232 | 0 | 101 | 66 | 134 | | | |
| 1,2,4-Trimethylbenzene | 0.0230 | 0.00500 | 0.0232 | 0 | 99.2 | 74 | 132 | | | |
| 1,2-Dibromo-3-chloropropane | 0.0210 | 0.0100 | 0.0232 | 0 | 90.6 | 50 | 132 | | | |
| 1,2-Dibromoethane | 0.0227 | 0.00100 | 0.0232 | 0 | 98.0 | 80 | 121 | | | |
| 1,2-Dichlorobenzene | 0.0226 | 0.00100 | 0.0232 | 0 | 97.3 | 75 | 122 | | | |
| 1,2-Dichloroethane | 0.0252 | 0.00100 | 0.0232 | 0 | 109 | 69 | 132 | | | |
| 1,2-Dichloropropane | 0.0274 | 0.00100 | 0.0232 | 0 | 118 | 75 | 125 | | | |
| 1,3,5-Trimethylbenzene | 0.0230 | 0.00500 | 0.0232 | 0 | 99.0 | 74 | 131 | | | |
| 1,3-Dichlorobenzene | 0.0227 | 0.00100 | 0.0232 | 0 | 97.7 | 75 | 124 | | | |
| 1,3-Dichloropropane | 0.0232 | 0.00100 | 0.0232 | 0 | 100 | 73 | 126 | | | |
| 1,4-Dichlorobenzene | 0.0225 | 0.00100 | 0.0232 | 0 | 96.9 | 74 | 123 | | | |
| 1-Chlorohexane | 0.0224 | 0.00500 | 0.0232 | 0 | 96.6 | 70 | 125 | | | |
| 2,2-Dichloropropane | 0.0263 | 0.00100 | 0.0232 | 0 | 113 | 69 | 137 | | | |
| 2-Butanone | 0.127 | 0.0150 | 0.116 | 0 | 109 | 49 | 136 | | | |
| 2-Chlorotoluene | 0.0222 | 0.00100 | 0.0232 | 0 | 95.7 | 73 | 126 | | | |
| 2-Hexanone | 0.114 | 0.0150 | 0.116 | 0 | 98.4 | 50 | 150 | | | |
| 4-Chlorotoluene | 0.0224 | 0.00100 | 0.0232 | 0 | 96.5 | 74 | 128 | | | |
| 4-Methyl-2-pentanone | 0.114 | 0.0150 | 0.116 | 0 | 98.0 | 60 | 134 | | | |
| Acetone | 0.116 | 0.0150 | 0.116 | 0 | 99.6 | 40 | 135 | | | |
| Benzene | 0.0275 | 0.00100 | 0.0232 | 0 | 119 | 81 | 122 | | | |
| Bromobenzene | 0.0218 | 0.00100 | 0.0232 | 0 | 94.1 | 76 | 124 | | | |
| Bromochloromethane | 0.0269 | 0.00100 | 0.0232 | 0 | 116 | 65 | 129 | | | |
| Bromodichloromethane | 0.0262 | 0.00100 | 0.0232 | 0 | 113 | 76 | 121 | | | |
| Bromoform | 0.0236 | 0.00100 | 0.0232 | 0 | 102 | 69 | 128 | | | |
| Bromomethane | 0.0227 | 0.00100 | 0.0232 | 0 | 97.9 | 53 | 141 | | | |
| Carbon disulfide | 0.0248 | 0.0150 | 0.0232 | 0 | 107 | 50 | 150 | | | |
| Carbon tetrachloride | 0.0262 | 0.00100 | 0.0232 | 0 | 113 | 66 | 138 | | | |
| Chlorobenzene | 0.0240 | 0.00100 | 0.0232 | 0 | 104 | 81 | 122 | | | |
| Chloroethane | 0.0266 | 0.00100 | 0.0232 | 0 | 115 | 58 | 133 | | | |
| Chloroform | 0.0262 | 0.00100 | 0.0232 | 0 | 113 | 69 | 128 | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_220913A

| Sample ID: LCS-107009 | Batch ID: 107009 | TestNo: SW8260D | | Units: | mg/L | | | | | |
|-----------------------------|-----------------------|--------------------------------------|-----------|---------|----------------------|----------|-----------|------|----------|------|
| SampType: LCS | Run ID: GCMS5_220913A | Analysis Date: 9/13/2022 10:03:00 AM | | | Prep Date: 9/13/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloromethane | 0.0288 | 0.00100 | 0.0232 | 0 | 124 | 56 | 131 | | | |
| cis-1,2-Dichloroethene | 0.0266 | 0.00100 | 0.0232 | 0 | 115 | 72 | 126 | | | |
| cis-1,3-Dichloropropene | 0.0270 | 0.00100 | 0.0232 | 0 | 116 | 69 | 131 | | | |
| Cyclohexane | 0.0284 | 0.0150 | 0.0232 | 0 | 122 | 40 | 161 | | | N |
| Dibromochloromethane | 0.0236 | 0.00100 | 0.0232 | 0 | 102 | 66 | 133 | | | |
| Dibromomethane | 0.0259 | 0.00100 | 0.0232 | 0 | 112 | 76 | 125 | | | |
| Dichlorodifluoromethane | 0.0225 | 0.00100 | 0.0232 | 0 | 96.8 | 53 | 153 | | | |
| Ethylbenzene | 0.0245 | 0.00100 | 0.0232 | 0 | 105 | 80 | 120 | | | |
| Hexachlorobutadiene | 0.0236 | 0.00300 | 0.0232 | 0 | 102 | 67 | 131 | | | |
| Isopropylbenzene | 0.0250 | 0.00100 | 0.0232 | 0 | 108 | 75 | 127 | | | |
| m,p-Xylene | 0.0494 | 0.00200 | 0.0464 | 0 | 107 | 80 | 120 | | | |
| Methyl Acetate | 0.0279 | 0.0150 | 0.0232 | 0 | 120 | 50 | 150 | | | |
| Methyl tert-butyl ether | 0.0259 | 0.00100 | 0.0232 | 0 | 112 | 68 | 123 | | | |
| Methylcyclohexane | 0.0286 | 0.0150 | 0.0232 | 0 | 123 | 70 | 130 | | | |
| Methylene chloride | 0.0277 | 0.00250 | 0.0232 | 0 | 119 | 63 | 137 | | | |
| Naphthalene | 0.0238 | 0.0150 | 0.0232 | 0 | 103 | 54 | 138 | | | |
| n-Butylbenzene | 0.0234 | 0.00100 | 0.0232 | 0 | 101 | 69 | 137 | | | |
| n-Propylbenzene | 0.0226 | 0.00100 | 0.0232 | 0 | 97.4 | 72 | 129 | | | |
| o-Xylene | 0.0247 | 0.00100 | 0.0232 | 0 | 107 | 80 | 120 | | | |
| p-Isopropyltoluene | 0.0236 | 0.00100 | 0.0232 | 0 | 102 | 73 | 130 | | | |
| sec-Butylbenzene | 0.0234 | 0.00100 | 0.0232 | 0 | 101 | 72 | 127 | | | |
| Styrene | 0.0247 | 0.00100 | 0.0232 | 0 | 106 | 65 | 134 | | | |
| tert-Butylbenzene | 0.0229 | 0.00100 | 0.0232 | 0 | 98.8 | 70 | 129 | | | |
| Tetrachloroethene | 0.0244 | 0.00200 | 0.0232 | 0 | 105 | 66 | 128 | | | |
| Toluene | 0.0280 | 0.00200 | 0.0232 | 0 | 121 | 80 | 120 | | | S |
| trans-1,2-Dichloroethene | 0.0267 | 0.00100 | 0.0232 | 0 | 115 | 63 | 137 | | | |
| trans-1,3-Dichloropropene | 0.0267 | 0.00100 | 0.0232 | 0 | 115 | 59 | 135 | | | |
| Trichloroethene | 0.0270 | 0.00100 | 0.0232 | 0 | 116 | 70 | 127 | | | |
| Trichlorofluoromethane | 0.0270 | 0.00100 | 0.0232 | 0 | 116 | 57 | 129 | | | |
| Vinyl chloride | 0.0270 | 0.00100 | 0.0232 | 0 | 116 | 50 | 134 | | | |
| Total Xylenes | 0.0742 | 0.00100 | 0.0696 | 0 | 107 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 179 | | 200.0 | | 89.4 | 72 | 119 | | | |
| Surr: 4-Bromofluorobenzene | 189 | | 200.0 | | 94.5 | 76 | 119 | | | |
| Surr: Dibromofluoromethane | 196 | | 200.0 | | 98.1 | 85 | 115 | | | |
| Surr: Toluene-d8 | 184 | | 200.0 | | 91.9 | 81 | 120 | | | |

| Sample ID: MB-107009 | Batch ID: 107009 | TestNo: SW8260D | | Units: | mg/L | | | | | |
|---------------------------|-----------------------|--------------------------------------|-----------|---------|----------------------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: GCMS5_220913A | Analysis Date: 9/13/2022 11:28:00 AM | | | Prep Date: 9/13/2022 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | <0.000300 | 0.00100 | | | | | | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_220913A

| Sample ID: MB-107009 | Batch ID: 107009 | TestNo: SW8260D | Units: mg/L | | | | | | | |
|--------------------------------|-----------------------|---|-------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: GCMS5_220913A | Analysis Date: 9/13/2022 11:28:00 AM Prep Date: 9/13/2022 | | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane | <0.000300 | 0.00100 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | <0.000300 | 0.00100 | | | | | | | | |
| 1,1,2-Trichloroethane | <0.000300 | 0.00100 | | | | | | | | |
| 1,1,2-Trichlorotrifluoroethane | <0.00500 | 0.0150 | | | | | | | | |
| 1,1-Dichloroethane | <0.000300 | 0.00100 | | | | | | | | |
| 1,1-Dichloroethene | <0.000300 | 0.00100 | | | | | | | | |
| 1,1-Dichloropropene | <0.000300 | 0.00100 | | | | | | | | |
| 1,2,3-Trichlorobenzene | <0.00150 | 0.00500 | | | | | | | | |
| 1,2,3-Trichloropropane | <0.000300 | 0.00100 | | | | | | | | |
| 1,2,4-Trichlorobenzene | <0.00150 | 0.00500 | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.00150 | 0.00500 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | <0.00300 | 0.0100 | | | | | | | | |
| 1,2-Dibromoethane | <0.000300 | 0.00100 | | | | | | | | |
| 1,2-Dichlorobenzene | <0.000300 | 0.00100 | | | | | | | | |
| 1,2-Dichloroethane | <0.000300 | 0.00100 | | | | | | | | |
| 1,2-Dichloropropane | <0.000300 | 0.00100 | | | | | | | | |
| 1,3,5-Trimethylbenzene | <0.00150 | 0.00500 | | | | | | | | |
| 1,3-Dichlorobenzene | <0.000300 | 0.00100 | | | | | | | | |
| 1,3-Dichloropropane | <0.000300 | 0.00100 | | | | | | | | |
| 1,4-Dichlorobenzene | <0.000300 | 0.00100 | | | | | | | | |
| 1-Chlorohexane | <0.00100 | 0.00500 | | | | | | | | |
| 2,2-Dichloropropane | <0.000300 | 0.00100 | | | | | | | | |
| 2-Butanone | <0.00500 | 0.0150 | | | | | | | | |
| 2-Chlorotoluene | <0.000300 | 0.00100 | | | | | | | | |
| 2-Hexanone | <0.00500 | 0.0150 | | | | | | | | |
| 4-Chlorotoluene | <0.000300 | 0.00100 | | | | | | | | |
| 4-Methyl-2-pentanone | <0.00500 | 0.0150 | | | | | | | | |
| Acetone | <0.00500 | 0.0150 | | | | | | | | |
| Benzene | <0.000300 | 0.00100 | | | | | | | | |
| Bromobenzene | <0.000300 | 0.00100 | | | | | | | | |
| Bromochloromethane | <0.000300 | 0.00100 | | | | | | | | |
| Bromodichloromethane | <0.000300 | 0.00100 | | | | | | | | |
| Bromoform | <0.000300 | 0.00100 | | | | | | | | |
| Bromomethane | <0.000300 | 0.00100 | | | | | | | | |
| Carbon disulfide | <0.00500 | 0.0150 | | | | | | | | |
| Carbon tetrachloride | <0.000300 | 0.00100 | | | | | | | | |
| Chlorobenzene | <0.000300 | 0.00100 | | | | | | | | |
| Chloroethane | <0.000300 | 0.00100 | | | | | | | | |
| Chloroform | <0.000300 | 0.00100 | | | | | | | | |
| Chloromethane | <0.000300 | 0.00100 | | | | | | | | |
| cis-1,2-Dichloroethene | <0.000300 | 0.00100 | | | | | | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_220913A

| Sample ID: MB-107009 | Batch ID: 107009 | TestNo: SW8260D | Units: mg/L | | | | | | | |
|-----------------------------|-----------------------|--------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: MBLK | Run ID: GCMS5_220913A | Analysis Date: 9/13/2022 11:28:00 AM | Prep Date: 9/13/2022 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| cis-1,3-Dichloropropene | <0.000300 | 0.00100 | | | | | | | | N |
| Cyclohexane | <0.00500 | 0.0150 | | | | | | | | |
| Dibromochloromethane | <0.000300 | 0.00100 | | | | | | | | |
| Dibromomethane | <0.000300 | 0.00100 | | | | | | | | |
| Dichlorodifluoromethane | <0.000300 | 0.00100 | | | | | | | | |
| Ethylbenzene | <0.000300 | 0.00100 | | | | | | | | |
| Hexachlorobutadiene | <0.00100 | 0.00300 | | | | | | | | |
| Isopropylbenzene | <0.000300 | 0.00100 | | | | | | | | |
| m,p-Xylene | <0.000600 | 0.00200 | | | | | | | | |
| Methyl Acetate | <0.00500 | 0.0150 | | | | | | | | |
| Methyl tert-butyl ether | <0.000300 | 0.00100 | | | | | | | | |
| Methylcyclohexane | <0.00500 | 0.0150 | | | | | | | | |
| Methylene chloride | <0.00250 | 0.00250 | | | | | | | | |
| Naphthalene | <0.00500 | 0.0150 | | | | | | | | |
| n-Butylbenzene | <0.000300 | 0.00100 | | | | | | | | |
| n-Propylbenzene | <0.000300 | 0.00100 | | | | | | | | |
| o-Xylene | <0.000300 | 0.00100 | | | | | | | | |
| p-Isopropyltoluene | <0.000300 | 0.00100 | | | | | | | | |
| sec-Butylbenzene | <0.000300 | 0.00100 | | | | | | | | |
| Styrene | <0.000300 | 0.00100 | | | | | | | | |
| tert-Butylbenzene | <0.000300 | 0.00100 | | | | | | | | |
| Tetrachloroethene | <0.000600 | 0.00200 | | | | | | | | |
| Toluene | <0.000600 | 0.00200 | | | | | | | | |
| trans-1,2-Dichloroethene | <0.000300 | 0.00100 | | | | | | | | |
| trans-1,3-Dichloropropene | <0.000300 | 0.00100 | | | | | | | | |
| Trichloroethene | <0.000600 | 0.00100 | | | | | | | | |
| Trichlorofluoromethane | <0.000300 | 0.00100 | | | | | | | | |
| Vinyl chloride | <0.000300 | 0.00100 | | | | | | | | |
| Total Xylenes | <0.000300 | 0.00100 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 185 | 200.0 | 92.4 | 72 | 119 | | | | | |
| Surr: 4-Bromofluorobenzene | 195 | 200.0 | 97.7 | 76 | 119 | | | | | |
| Surr: Dibromofluoromethane | 198 | 200.0 | 99.0 | 85 | 115 | | | | | |
| Surr: Toluene-d8 | 188 | 200.0 | 93.9 | 81 | 120 | | | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_220913A

| Sample ID: ICV-220913 | Batch ID: R123043 | TestNo: SW8260D | | Units: | mg/L | | | | | |
|--------------------------------|-----------------------|-------------------------------------|-----------|---------|------------|----------|-----------|------|----------|------|
| SampType: ICV | Run ID: GCMS5_220913A | Analysis Date: 9/13/2022 9:37:00 AM | | | Prep Date: | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1,2-Tetrachloroethane | 0.0427 | 0.00100 | 0.0464 | 0 | 92.1 | 70 | 130 | | | |
| 1,1,1-Trichloroethane | 0.0474 | 0.00100 | 0.0464 | 0 | 102 | 70 | 130 | | | |
| 1,1,2,2-Tetrachloroethane | 0.0367 | 0.00100 | 0.0464 | 0 | 79.0 | 70 | 130 | | | |
| 1,1,2-Trichloroethane | 0.0484 | 0.00100 | 0.0464 | 0 | 104 | 70 | 130 | | | |
| 1,1,2-Trichlorotrifluoroethane | 0.0546 | 0.0150 | 0.0464 | 0 | 118 | 70 | 130 | | | |
| 1,1-Dichloroethane | 0.0480 | 0.00100 | 0.0464 | 0 | 103 | 70 | 130 | | | |
| 1,1-Dichloroethene | 0.0469 | 0.00100 | 0.0464 | 0 | 101 | 70 | 130 | | | |
| 1,1-Dichloropropene | 0.0488 | 0.00100 | 0.0464 | 0 | 105 | 70 | 130 | | | |
| 1,2,3-Trichlorobenzene | 0.0367 | 0.00500 | 0.0464 | 0 | 79.1 | 70 | 130 | | | |
| 1,2,3-Trichloropropane | 0.0363 | 0.00100 | 0.0464 | 0 | 78.1 | 70 | 130 | | | |
| 1,2,4-Trichlorobenzene | 0.0386 | 0.00500 | 0.0464 | 0 | 83.1 | 70 | 130 | | | |
| 1,2,4-Trimethylbenzene | 0.0395 | 0.00500 | 0.0464 | 0 | 85.2 | 70 | 130 | | | |
| 1,2-Dibromo-3-chloropropane | 0.0357 | 0.0100 | 0.0464 | 0 | 77.0 | 70 | 130 | | | |
| 1,2-Dibromoethane | 0.0406 | 0.00100 | 0.0464 | 0 | 87.4 | 70 | 130 | | | |
| 1,2-Dichlorobenzene | 0.0382 | 0.00100 | 0.0464 | 0 | 82.4 | 70 | 130 | | | |
| 1,2-Dichloroethane | 0.0451 | 0.00100 | 0.0464 | 0 | 97.1 | 70 | 130 | | | |
| 1,2-Dichloropropane | 0.0495 | 0.00100 | 0.0464 | 0 | 107 | 70 | 130 | | | |
| 1,3,5-Trimethylbenzene | 0.0394 | 0.00500 | 0.0464 | 0 | 84.9 | 70 | 130 | | | |
| 1,3-Dichlorobenzene | 0.0389 | 0.00100 | 0.0464 | 0 | 83.8 | 70 | 130 | | | |
| 1,3-Dichloropropane | 0.0416 | 0.00100 | 0.0464 | 0 | 89.6 | 70 | 130 | | | |
| 1,4-Dichlorobenzene | 0.0386 | 0.00100 | 0.0464 | 0 | 83.2 | 70 | 130 | | | |
| 1-Chlorohexane | 0.0396 | 0.00500 | 0.0464 | 0 | 85.3 | 70 | 130 | | | |
| 2,2-Dichloropropane | 0.0475 | 0.00100 | 0.0464 | 0 | 102 | 70 | 130 | | | |
| 2-Butanone | 0.252 | 0.0150 | 0.232 | 0 | 109 | 70 | 130 | | | |
| 2-Chlorotoluene | 0.0383 | 0.00100 | 0.0464 | 0 | 82.5 | 70 | 130 | | | |
| 2-Hexanone | 0.224 | 0.0150 | 0.232 | 0 | 96.4 | 70 | 130 | | | |
| 4-Chlorotoluene | 0.0385 | 0.00100 | 0.0464 | 0 | 82.9 | 70 | 130 | | | |
| 4-Methyl-2-pentanone | 0.222 | 0.0150 | 0.232 | 0 | 95.5 | 70 | 130 | | | |
| Acetone | 0.232 | 0.0150 | 0.232 | 0 | 99.9 | 70 | 130 | | | |
| Benzene | 0.0498 | 0.00100 | 0.0464 | 0 | 107 | 70 | 130 | | | |
| Bromobenzene | 0.0372 | 0.00100 | 0.0464 | 0 | 80.2 | 70 | 130 | | | |
| Bromochloromethane | 0.0485 | 0.00100 | 0.0464 | 0 | 105 | 70 | 130 | | | |
| Bromodichloromethane | 0.0472 | 0.00100 | 0.0464 | 0 | 102 | 70 | 130 | | | |
| Bromoform | 0.0431 | 0.00100 | 0.0464 | 0 | 92.9 | 70 | 130 | | | |
| Bromomethane | 0.0343 | 0.00100 | 0.0464 | 0 | 73.9 | 70 | 130 | | | |
| Carbon disulfide | 0.0483 | 0.0150 | 0.0464 | 0 | 104 | 70 | 130 | | | |
| Carbon tetrachloride | 0.0462 | 0.00100 | 0.0464 | 0 | 99.6 | 70 | 130 | | | |
| Chlorobenzene | 0.0424 | 0.00100 | 0.0464 | 0 | 91.3 | 70 | 130 | | | |
| Chloroethane | 0.0455 | 0.00100 | 0.0464 | 0 | 98.0 | 70 | 130 | | | |
| Chloroform | 0.0473 | 0.00100 | 0.0464 | 0 | 102 | 70 | 130 | | | |
| Chloromethane | 0.0509 | 0.00100 | 0.0464 | 0 | 110 | 70 | 130 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_220913A

| Sample ID: ICV-220913 | Batch ID: R123043 | TestNo: SW8260D | Units: mg/L | | | | | | | |
|-----------------------------|-----------------------|-------------------------------------|-------------|---------|------|----------|-----------|------|----------|------|
| SampType: ICV | Run ID: GCMS5_220913A | Analysis Date: 9/13/2022 9:37:00 AM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| cis-1,2-Dichloroethene | 0.0478 | 0.00100 | 0.0464 | 0 | 103 | 70 | 130 | | | |
| cis-1,3-Dichloropropene | 0.0494 | 0.00100 | 0.0464 | 0 | 107 | 70 | 130 | | | |
| Cyclohexane | 0.0526 | 0.0150 | 0.0464 | 0 | 113 | 70 | 130 | | | N |
| Dibromochloromethane | 0.0422 | 0.00100 | 0.0464 | 0 | 91.0 | 70 | 130 | | | |
| Dibromomethane | 0.0463 | 0.00100 | 0.0464 | 0 | 99.9 | 70 | 130 | | | |
| Dichlorodifluoromethane | 0.0399 | 0.00100 | 0.0464 | 0 | 86.0 | 70 | 130 | | | |
| Ethylbenzene | 0.0437 | 0.00100 | 0.0464 | 0 | 94.2 | 70 | 130 | | | |
| Hexachlorobutadiene | 0.0388 | 0.00300 | 0.0464 | 0 | 83.6 | 70 | 130 | | | |
| Isopropylbenzene | 0.0449 | 0.00100 | 0.0464 | 0 | 96.7 | 70 | 130 | | | |
| m,p-Xylene | 0.0890 | 0.00200 | 0.0928 | 0 | 95.9 | 70 | 130 | | | |
| Methyl Acetate | 0.0528 | 0.0150 | 0.0464 | 0 | 114 | 70 | 130 | | | |
| Methyl tert-butyl ether | 0.0464 | 0.00100 | 0.0464 | 0 | 100 | 70 | 130 | | | |
| Methylcyclohexane | 0.0550 | 0.0150 | 0.0464 | 0 | 119 | 70 | 130 | | | |
| Methylene chloride | 0.0491 | 0.00250 | 0.0464 | 0 | 106 | 70 | 130 | | | |
| Naphthalene | 0.0361 | 0.0150 | 0.0464 | 0 | 77.9 | 70 | 130 | | | |
| n-Butylbenzene | 0.0403 | 0.00100 | 0.0464 | 0 | 86.9 | 70 | 130 | | | |
| n-Propylbenzene | 0.0387 | 0.00100 | 0.0464 | 0 | 83.4 | 70 | 130 | | | |
| o-Xylene | 0.0445 | 0.00100 | 0.0464 | 0 | 95.9 | 70 | 130 | | | |
| p-Isopropyltoluene | 0.0407 | 0.00100 | 0.0464 | 0 | 87.6 | 70 | 130 | | | |
| sec-Butylbenzene | 0.0399 | 0.00100 | 0.0464 | 0 | 86.0 | 70 | 130 | | | |
| Styrene | 0.0448 | 0.00100 | 0.0464 | 0 | 96.6 | 70 | 130 | | | |
| tert-Butylbenzene | 0.0396 | 0.00100 | 0.0464 | 0 | 85.3 | 70 | 130 | | | |
| Tetrachloroethene | 0.0433 | 0.00200 | 0.0464 | 0 | 93.4 | 70 | 130 | | | |
| Toluene | 0.0505 | 0.00200 | 0.0464 | 0 | 109 | 70 | 130 | | | |
| trans-1,2-Dichloroethene | 0.0478 | 0.00100 | 0.0464 | 0 | 103 | 70 | 130 | | | |
| trans-1,3-Dichloropropene | 0.0483 | 0.00100 | 0.0464 | 0 | 104 | 70 | 130 | | | |
| Trichloroethene | 0.0488 | 0.00100 | 0.0464 | 0 | 105 | 70 | 130 | | | |
| Trichlorofluoromethane | 0.0477 | 0.00100 | 0.0464 | 0 | 103 | 70 | 130 | | | |
| Vinyl chloride | 0.0476 | 0.00100 | 0.0464 | 0 | 103 | 70 | 130 | | | |
| Total Xylenes | 0.133 | 0.00100 | 0.139 | 0 | 95.9 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 184 | | 200.0 | | 92.0 | 72 | 119 | | | |
| Surr: 4-Bromofluorobenzene | 181 | | 200.0 | | 90.5 | 76 | 119 | | | |
| Surr: Dibromofluoromethane | 199 | | 200.0 | | 99.5 | 85 | 115 | | | |
| Surr: Toluene-d8 | 185 | | 200.0 | | 92.5 | 81 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_220913A

The QC data in batch 107020 applies to the following samples: 2209090-01A, 2209090-04C, 2209090-06C, 2209090-07A, 2209090-10C, 2209090-12A

| Sample ID: | 2209084-27A-DUP | Batch ID: | 107020 | TestNo: | D2216 | Units: | WT% | | | |
|------------------|-----------------|-----------|----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | DUP | Run ID: | PMOIST_220913A | Analysis Date: | 9/14/2022 9:15:00 AM | Prep Date: | 9/13/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Percent Moisture | 21.1 | 0 | 0 | 20.84 | | 1.03 | 30 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_220913B

The QC data in batch 107021 applies to the following samples: 2209090-15A, 2209090-18A, 2209090-21A, 2209090-24A, 2209090-27A, 2209090-30A, 2209090-33A, 2209090-36A, 2209090-39A, 2209090-42A, 2209090-45A, 2209090-48A, 2209090-51C, 2209090-52C, 2209090-55A, 2209090-56A

| Sample ID: | 2209090-56A-DUP | Batch ID: | 107021 | TestNo: | D2216 | Units: | WT% | | | |
|------------------|-----------------|-----------|----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | DUP | Run ID: | PMOIST_220913B | Analysis Date: | 9/14/2022 9:15:00 AM | Prep Date: | 9/13/2022 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Percent Moisture | 19.5 | 0 | 0 | 20.11 | | | | 3.13 | 30 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_220923A

The QC data in batch 107123 applies to the following samples: 2209090-05A, 2209090-11A, 2209090-25A, 2209090-37A, 2209090-49A

| | | | | | |
|-----------------------------------|-------------------------------|---------|--|------------|--|
| Sample ID: 2209090-05A-DUP | Batch ID: 107123 | TestNo: | D2216 | Units: | WT% |
| SampType: DUP | Run ID: PMOIST_220923A | | Analysis Date: 9/26/2022 9:15:00 AM | Prep Date: | 9/23/2022 |
| Analyte | Result | RL | SPK value | Ref Val | %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Percent Moisture | 17.2 | 0 | 0 | 16.17 | 5.96 30 |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

MQL SUMMARY REPORT

| TestNo: TX1005 | MDL | MQL |
|----------------------------|-------|-------|
| Analyte | mg/Kg | mg/Kg |
| T/R Hydrocarbons: C6-C12 | 7.00 | 20.0 |
| T/R Hydrocarbons: >C12-C28 | 7.00 | 20.0 |
| T/R Hydrocarbons: >C28-C35 | 7.00 | 20.0 |
| T/R Hydrocarbons: C6-C35 | 7.00 | 20.0 |

| TestNo: SW6020B | MDL | MQL |
|-----------------|-------|-------|
| Analyte | mg/Kg | mg/Kg |
| Lead | 0.100 | 0.300 |

| TestNo: SW8260D | MDL | MQL |
|--------------------------------|---------|---------|
| Analyte | mg/Kg | mg/Kg |
| 1,1,1,2-Tetrachloroethane | 0.00100 | 0.00500 |
| 1,1,1-Trichloroethane | 0.00100 | 0.00500 |
| 1,1,2,2-Tetrachloroethane | 0.00100 | 0.00500 |
| 1,1,2-Trichloroethane | 0.00100 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | 0.00500 | 0.0150 |
| 1,1-Dichloroethane | 0.00100 | 0.00500 |
| 1,1-Dichloroethene | 0.00100 | 0.00500 |
| 1,1-Dichloropropene | 0.00100 | 0.00500 |
| 1,2,3-Trichlorobenzene | 0.00100 | 0.00500 |
| 1,2,3-Trichloropropane | 0.00100 | 0.00500 |
| 1,2,4-Trichlorobenzene | 0.00100 | 0.00500 |
| 1,2,4-Trimethylbenzene | 0.00100 | 0.00500 |
| 1,2-Dibromo-3-chloropropane | 0.00100 | 0.00500 |
| 1,2-Dibromoethane | 0.00100 | 0.00500 |
| 1,2-Dichlorobenzene | 0.00100 | 0.00500 |
| 1,2-Dichloroethane | 0.00100 | 0.00500 |
| 1,2-Dichloropropane | 0.00100 | 0.00500 |
| 1,3,5-Trimethylbenzene | 0.00100 | 0.00500 |
| 1,3-Dichlorobenzene | 0.00100 | 0.00500 |
| 1,3-Dichloropropane | 0.00100 | 0.00500 |
| 1,4-Dichlorobenzene | 0.00100 | 0.00500 |
| 1-Chlorohexane | 0.00100 | 0.00500 |
| 2,2-Dichloropropane | 0.00100 | 0.00500 |
| 2-Butanone | 0.00500 | 0.0150 |
| 2-Chlorotoluene | 0.00100 | 0.00500 |
| 2-Hexanone | 0.00500 | 0.0150 |
| 4-Chlorotoluene | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone | 0.00500 | 0.0150 |
| Acetone | 0.0150 | 0.0500 |
| Benzene | 0.00100 | 0.00500 |
| Bromobenzene | 0.00100 | 0.00500 |
| Bromochloromethane | 0.00100 | 0.00500 |
| Bromodichloromethane | 0.00100 | 0.00500 |
| Bromoform | 0.00100 | 0.00500 |
| Bromomethane | 0.00100 | 0.00500 |
| Carbon disulfide | 0.00500 | 0.0150 |
| Carbon tetrachloride | 0.00100 | 0.00500 |
| Chlorobenzene | 0.00100 | 0.00500 |
| Chloroethane | 0.00100 | 0.00500 |
| Chloroform | 0.00100 | 0.00500 |
| Chloromethane | 0.00100 | 0.00500 |
| cis-1,2-Dichloroethene | 0.00100 | 0.00500 |
| cis-1,3-Dichloropropene | 0.00100 | 0.00500 |
| Cyclohexane | 0.00500 | 0.0150 |

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

MQL SUMMARY REPORT

| | | | TestNo: SW8260D | MDL | MQL |
|---------------------------|---------|---------|--------------------------------|-------------|-------------|
| | | | Analyte | mg/L | mg/L |
| Dibromochloromethane | 0.00100 | 0.00500 | 1,1,1,2-Tetrachloroethane | 0.000300 | 0.00100 |
| Dibromomethane | 0.00100 | 0.00500 | 1,1,1-Trichloroethane | 0.000300 | 0.00100 |
| Dichlorodifluoromethane | 0.00100 | 0.00500 | 1,1,2,2-Tetrachloroethane | 0.000300 | 0.00100 |
| Ethylbenzene | 0.00100 | 0.00500 | 1,1,2-Trichloroethane | 0.000300 | 0.00100 |
| Hexachlorobutadiene | 0.00100 | 0.00500 | 1,1,2-Trichlorotrifluoroethane | 0.00500 | 0.0150 |
| Isopropylbenzene | 0.00100 | 0.00500 | 1,1-Dichloroethane | 0.000300 | 0.00100 |
| m,p-Xylene | 0.00100 | 0.00500 | 1,1-Dichloroethene | 0.000300 | 0.00100 |
| Methyl Acetate | 0.00500 | 0.0150 | 1,1-Dichloropropene | 0.000300 | 0.00100 |
| Methyl tert-butyl ether | 0.00100 | 0.00500 | 1,2,3-Trichlorobenzene | 0.00150 | 0.00500 |
| Methylcyclohexane | 0.00500 | 0.0150 | 1,2,3-Trichloropropane | 0.000300 | 0.00100 |
| Methylene chloride | 0.00500 | 0.00500 | 1,2,4-Trichlorobenzene | 0.00150 | 0.00500 |
| Naphthalene | 0.00500 | 0.0150 | 1,2,4-Trimethylbenzene | 0.00150 | 0.00500 |
| n-Butylbenzene | 0.00100 | 0.00500 | 1,2-Dibromo-3-chloropropane | 0.00300 | 0.0100 |
| n-Propylbenzene | 0.00100 | 0.00500 | 1,2-Dibromoethane | 0.000300 | 0.00100 |
| o-Xylene | 0.00100 | 0.00500 | 1,2-Dichlorobenzene | 0.000300 | 0.00100 |
| p-Isopropyltoluene | 0.00100 | 0.00500 | 1,2-Dichloroethane | 0.000300 | 0.00100 |
| sec-Butylbenzene | 0.00100 | 0.00500 | 1,2-Dichloropropane | 0.000300 | 0.00100 |
| Styrene | 0.00100 | 0.00500 | 1,3,5-Trimethylbenzene | 0.00150 | 0.00500 |
| tert-Butylbenzene | 0.00100 | 0.00500 | 1,3-Dichlorobenzene | 0.000300 | 0.00100 |
| Tetrachloroethene | 0.00100 | 0.00500 | 1,3-Dichloropropane | 0.000300 | 0.00100 |
| Toluene | 0.00100 | 0.00500 | 1,4-Dichlorobenzene | 0.000300 | 0.00100 |
| trans-1,2-Dichloroethene | 0.00100 | 0.00500 | 1-Chlorohexane | 0.00100 | 0.00500 |
| trans-1,3-Dichloropropene | 0.00100 | 0.00500 | 2,2-Dichloropropane | 0.000300 | 0.00100 |
| Trichloroethene | 0.00100 | 0.00500 | 2-Butanone | 0.00500 | 0.0150 |
| Trichlorofluoromethane | 0.00500 | 0.0150 | 2-Chlorotoluene | 0.000300 | 0.00100 |
| Vinyl chloride | 0.00100 | 0.00500 | 2-Hexanone | 0.00500 | 0.0150 |
| Total Xylenes | 0.00100 | 0.00500 | 4-Chlorotoluene | 0.000300 | 0.00100 |
| | | | 4-Methyl-2-pentanone | 0.00500 | 0.0150 |
| | | | Acetone | 0.00500 | 0.0150 |
| | | | Benzene | 0.000300 | 0.00100 |
| | | | Bromobenzene | 0.000300 | 0.00100 |
| | | | Bromochloromethane | 0.000300 | 0.00100 |
| | | | Bromodichloromethane | 0.000300 | 0.00100 |
| | | | Bromoform | 0.000300 | 0.00100 |
| | | | Bromomethane | 0.000300 | 0.00100 |
| | | | Carbon disulfide | 0.00500 | 0.0150 |
| | | | Carbon tetrachloride | 0.000300 | 0.00100 |
| | | | Chlorobenzene | 0.000300 | 0.00100 |
| | | | Chloroethane | 0.000300 | 0.00100 |
| | | | Chloroform | 0.000300 | 0.00100 |
| | | | Chloromethane | 0.000300 | 0.00100 |
| | | | cis-1,2-Dichloroethene | 0.000300 | 0.00100 |
| | | | cis-1,3-Dichloropropene | 0.000300 | 0.00100 |
| | | | Cyclohexane | 0.00500 | 0.0150 |
| | | | Dibromochloromethane | 0.000300 | 0.00100 |
| | | | Dibromomethane | 0.000300 | 0.00100 |

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

MQL SUMMARY REPORT

| | | | TestNo: SW8260D | MDL | MQL |
|---------------------------|----------|---------|--------------------------------|--------------|--------------|
| | | | Analyte | mg/Kg | mg/Kg |
| Dichlorodifluoromethane | 0.000300 | 0.00100 | 1,1,1,2-Tetrachloroethane | 0.00100 | 0.00500 |
| Ethylbenzene | 0.000300 | 0.00100 | 1,1,1-Trichloroethane | 0.00100 | 0.00500 |
| Hexachlorobutadiene | 0.00100 | 0.00300 | 1,1,2,2-Tetrachloroethane | 0.00100 | 0.00500 |
| Isopropylbenzene | 0.000300 | 0.00100 | 1,1,2-Trichloroethane | 0.00100 | 0.00500 |
| m,p-Xylene | 0.000600 | 0.00200 | 1,1,2-Trichlorotrifluoroethane | 0.00500 | 0.0150 |
| Methyl Acetate | 0.00500 | 0.0150 | 1,1-Dichloroethane | 0.00100 | 0.00500 |
| Methyl tert-butyl ether | 0.000300 | 0.00100 | 1,1-Dichloroethene | 0.00100 | 0.00500 |
| Methylcyclohexane | 0.00500 | 0.0150 | 1,1-Dichloropropene | 0.00100 | 0.00500 |
| Methylene chloride | 0.00250 | 0.00250 | 1,2,3-Trichlorobenzene | 0.00100 | 0.00500 |
| Naphthalene | 0.00500 | 0.0150 | 1,2,3-Trichloropropane | 0.00100 | 0.00500 |
| n-Butylbenzene | 0.000300 | 0.00100 | 1,2,4-Trichlorobenzene | 0.00100 | 0.00500 |
| n-Propylbenzene | 0.000300 | 0.00100 | 1,2,4-Trimethylbenzene | 0.00100 | 0.00500 |
| o-Xylene | 0.000300 | 0.00100 | 1,2-Dibromo-3-chloropropane | 0.00100 | 0.00500 |
| p-Isopropyltoluene | 0.000300 | 0.00100 | 1,2-Dibromoethane | 0.00100 | 0.00500 |
| sec-Butylbenzene | 0.000300 | 0.00100 | 1,2-Dichlorobenzene | 0.00100 | 0.00500 |
| Styrene | 0.000300 | 0.00100 | 1,2-Dichloroethane | 0.00100 | 0.00500 |
| tert-Butylbenzene | 0.000300 | 0.00100 | 1,2-Dichloropropane | 0.00100 | 0.00500 |
| Tetrachloroethene | 0.000600 | 0.00200 | 1,3,5-Trimethylbenzene | 0.00100 | 0.00500 |
| Toluene | 0.000600 | 0.00200 | 1,3-Dichlorobenzene | 0.00100 | 0.00500 |
| trans-1,2-Dichloroethene | 0.000300 | 0.00100 | 1,3-Dichloropropane | 0.00100 | 0.00500 |
| trans-1,3-Dichloropropene | 0.000300 | 0.00100 | 1-Chlorohexane | 0.00100 | 0.00500 |
| Trichloroethene | 0.000600 | 0.00100 | 2,2-Dichloropropane | 0.00100 | 0.00500 |
| Trichlorofluoromethane | 0.000300 | 0.00100 | 2-Butanone | 0.00500 | 0.0150 |
| Vinyl chloride | 0.000300 | 0.00100 | 2-Chlorotoluene | 0.00100 | 0.00500 |
| Total Xylenes | 0.000300 | 0.00100 | 2-Hexanone | 0.00500 | 0.0150 |
| | | | 4-Chlorotoluene | 0.00100 | 0.00500 |
| | | | 4-Methyl-2-pentanone | 0.00500 | 0.0150 |
| | | | Acetone | 0.0150 | 0.0500 |
| | | | Benzene | 0.00100 | 0.00500 |
| | | | Bromobenzene | 0.00100 | 0.00500 |
| | | | Bromochloromethane | 0.00100 | 0.00500 |
| | | | Bromodichloromethane | 0.00100 | 0.00500 |
| | | | Bromoform | 0.00100 | 0.00500 |
| | | | Bromomethane | 0.00100 | 0.00500 |
| | | | Carbon disulfide | 0.00500 | 0.0150 |
| | | | Carbon tetrachloride | 0.00100 | 0.00500 |
| | | | Chlorobenzene | 0.00100 | 0.00500 |
| | | | Chloroethane | 0.00100 | 0.00500 |
| | | | Chloroform | 0.00100 | 0.00500 |
| | | | Chloromethane | 0.00100 | 0.00500 |
| | | | cis-1,2-Dichloroethene | 0.00100 | 0.00500 |
| | | | cis-1,3-Dichloropropene | 0.00100 | 0.00500 |
| | | | Cyclohexane | 0.00500 | 0.0150 |
| | | | Dibromochloromethane | 0.00100 | 0.00500 |
| | | | Dibromomethane | 0.00100 | 0.00500 |

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

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CLIENT: Terracon
Work Order: 2209090
Project: Rosedale

MQL SUMMARY REPORT

| | | |
|---------------------------|---------|---------|
| Dichlorodifluoromethane | 0.00100 | 0.00500 |
| Ethylbenzene | 0.00100 | 0.00500 |
| Hexachlorobutadiene | 0.00100 | 0.00500 |
| Isopropylbenzene | 0.00100 | 0.00500 |
| m,p-Xylene | 0.00100 | 0.00500 |
| Methyl Acetate | 0.00500 | 0.0150 |
| Methyl tert-butyl ether | 0.00100 | 0.00500 |
| Methylcyclohexane | 0.00500 | 0.0150 |
| Methylene chloride | 0.00500 | 0.00500 |
| Naphthalene | 0.00500 | 0.0150 |
| n-Butylbenzene | 0.00100 | 0.00500 |
| n-Propylbenzene | 0.00100 | 0.00500 |
| o-Xylene | 0.00100 | 0.00500 |
| p-Isopropyltoluene | 0.00100 | 0.00500 |
| sec-Butylbenzene | 0.00100 | 0.00500 |
| Styrene | 0.00100 | 0.00500 |
| tert-Butylbenzene | 0.00100 | 0.00500 |
| Tetrachloroethene | 0.00100 | 0.00500 |
| Toluene | 0.00100 | 0.00500 |
| trans-1,2-Dichloroethene | 0.00100 | 0.00500 |
| trans-1,3-Dichloropropene | 0.00100 | 0.00500 |
| Trichloroethene | 0.00100 | 0.00500 |
| Trichlorofluoromethane | 0.00500 | 0.0150 |
| Vinyl chloride | 0.00100 | 0.00500 |
| Xylenes, Total | 0.00100 | 0.00500 |



ANALYTICAL REPORT

September 28, 2022

¹Cp

²Tc

³Ss

⁴Cn

⁵Tr

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Terracon - Ft. Worth, TX

Sample Delivery Group: L1538557
Samples Received: 09/22/2022
Project Number: 95207647 TASK 3.6
Description: Rosedale Project

Report To: Kyle Lindquist
1801 Handley Ederville Rd.
Fort Worth, TX 76118

Entire Report Reviewed By:

Jennifer A McCurdy
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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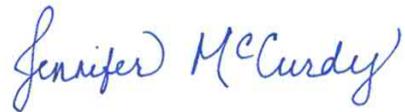
SAMPLE SUMMARY

| | | | | | | |
|---|-----------|----------|-----------------------|------------------------|---------------------------------------|--------------------------------------|
| | | | | Collected by Kyle L | Collected date/time 09/21/22 11:43 | Received date/time 09/22/22 09:00 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1932122 | 1 | 09/25/22 16:57 | 09/25/22 16:57 | CEP | Mt. Juliet, TN |
| SGP-2 L1538557-02 Air | | | | Collected by Kyle L | Collected date/time 09/21/22 11:31 | Received date/time 09/22/22 09:00 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1932122 | 1 | 09/25/22 17:28 | 09/25/22 17:28 | CEP | Mt. Juliet, TN |
| SGP-3 L1538557-03 Air | | | | Collected by Kyle L | Collected date/time 09/21/22 10:48 | Received date/time 09/22/22 09:00 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1932122 | 1 | 09/25/22 17:59 | 09/25/22 17:59 | CEP | Mt. Juliet, TN |
| SGP-4 L1538557-04 Air | | | | Collected by Kyle L | Collected date/time 09/21/22 10:28 | Received date/time 09/22/22 09:00 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1932122 | 100 | 09/26/22 01:13 | 09/26/22 01:13 | CEP | Mt. Juliet, TN |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1933255 | 10000 | 09/28/22 03:16 | 09/28/22 03:16 | CEP | Mt. Juliet, TN |
| SGP-5 L1538557-05 Air | | | | Collected by Kyle L | Collected date/time 09/21/22 10:08 | Received date/time 09/22/22 09:00 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1932122 | 1 | 09/25/22 18:30 | 09/25/22 18:30 | CEP | Mt. Juliet, TN |
| SGP-6 L1538557-06 Air | | | | Collected by Kyle L | Collected date/time 09/21/22 09:49 | Received date/time 09/22/22 09:00 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1932122 | 1 | 09/25/22 19:02 | 09/25/22 19:02 | CEP | Mt. Juliet, TN |
| FB-1 L1538557-07 Air | | | | Collected by Kyle L | Collected date/time 09/21/22 11:51 | Received date/time 09/22/22 09:00 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Volatile Organic Compounds (MS) by Method TO-15 | WG1932122 | 1 | 09/25/22 19:32 | 09/25/22 19:32 | CEP | Mt. Juliet, TN |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Tr
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jennifer A McCurdy
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

- a. Items consistent with NELAC Chapter 5,
- b. dilution factors,
- c. preparation methods,
- d. cleanup methods, and
- e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

- a. Calculated recovery (%R), and
- b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

- a. LCS spiking amounts,
- b. Calculated %R for each analyte, and
- c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

- a. Samples associated with the MS/MSD clearly identified,
- b. MS/MSD spiking amounts,
- c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d. Calculated %Rs and relative percent differences (RPDs), and
- e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

- a. The amount of analyte measured in the duplicate,
- b. The calculated RPD, and
- c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.



Jennifer A McCurdy
Project Manager

Laboratory Review Checklist: Reportable Data

| | | | | | | | |
|---|----------------|--|---|----|-----------------|-----------------|------------------|
| Laboratory Name: Pace Analytical National | | | LRC Date: 09/28/2022 16:41 | | | | |
| Project Name: Rosedale Project | | | Laboratory Job Number: L1538557-01, 02, 03, 04, 05, 06 and 07 | | | | |
| Reviewer Name: Jennifer A McCurdy | | | Prep Batch Number(s): WG1932122 and WG1933255 | | | | |
| # ¹ | A ² | Description | | | | | |
| R1 | OI | Chain-of-custody (C-O-C) | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| | | Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? | X | | | | |
| | | Were all departures from standard conditions described in an exception report? | | X | | | |
| R2 | OI | Sample and quality control (QC) identification | X | | | | |
| | | Are all field sample ID numbers cross-referenced to the laboratory ID numbers? | X | | | | |
| | | Are all laboratory ID numbers cross-referenced to the corresponding QC data? | X | | | | |
| R3 | OI | Test reports | X | | | | |
| | | Were all samples prepared and analyzed within holding times? | X | | | | |
| | | Other than those results < MQL, were all other raw values bracketed by calibration standards? | X | | | | |
| | | Were calculations checked by a peer or supervisor? | X | | | | |
| | | Were all analyte identifications checked by a peer or supervisor? | X | | | | |
| | | Were sample detection limits reported for all analytes not detected? | X | | | | |
| | | Were all results for soil and sediment samples reported on a dry weight basis? | X | | | | |
| | | Were % moisture (or solids) reported for all soil and sediment samples? | | X | | | |
| | | Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035? | | X | | | |
| | | If required for the project, are TICs reported? | | X | | | |
| R4 | O | Surrogate recovery data | X | | | | |
| | | Were surrogates added prior to extraction? | X | | | | |
| | | Were surrogate percent recoveries in all samples within the laboratory QC limits? | | X | | | 1 |
| R5 | OI | Test reports/summary forms for blank samples | X | | | | |
| | | Were appropriate type(s) of blanks analyzed? | X | | | | |
| | | Were blanks analyzed at the appropriate frequency? | X | | | | |
| | | Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? | X | | | | |
| | | Were blank concentrations < MQL? | X | | | | |
| R6 | OI | Laboratory control samples (LCS): | X | | | | |
| | | Were all COCs included in the LCS? | X | | | | |
| | | Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? | X | | | | |
| | | Were LCSs analyzed at the required frequency? | X | | | | |
| | | Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? | X | | | | |
| | | Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs? | X | | | | |
| | | Was the LCSD RPD within QC limits? | X | | | | |
| R7 | OI | Matrix spike (MS) and matrix spike duplicate (MSD) data | X | | | | |
| | | Were the project/method specified analytes included in the MS and MSD? | | | X | | |
| | | Were MS/MSD analyzed at the appropriate frequency? | | | X | | |
| | | Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? | | | X | | |
| | | Were MS/MSD RPDs within laboratory QC limits? | | | X | | |
| R8 | OI | Analytical duplicate data | X | | | | |
| | | Were appropriate analytical duplicates analyzed for each matrix? | | | X | | |
| | | Were analytical duplicates analyzed at the appropriate frequency? | | | X | | |
| | | Were RPDs or relative standard deviations within the laboratory QC limits? | | | X | | |
| R9 | OI | Method quantitation limits (MQLs): | X | | | | |
| | | Are the MQLs for each method analyte included in the laboratory data package? | X | | | | |
| | | Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? | X | | | | |
| | | Are unadjusted MQLs and DCSs included in the laboratory data package? | X | | | | |
| R10 | OI | Other problems/anomalies | X | | | | |
| | | Are all known problems/anomalies/special conditions noted in this LRC and ER? | X | | | | |
| | | Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results? | X | | | | |
| | | Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package? | X | | | | |

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

3. NA = Not applicable;

4. NR = Not reviewed;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

| Laboratory Name: Pace Analytical National | | LRC Date: 09/28/2022 16:41 | | | | | |
|---|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: Rosedale Project | | Laboratory Job Number: L1538557-01, 02, 03, 04, 05, 06 and 07 | | | | | |
| Reviewer Name: Jennifer A McCurdy | | Prep Batch Number(s): WG1932122 and WG1933255 | | | | | |
| # ¹ | A ² | Description | Yes | No | NA ³ | NR ⁴ | ER# ⁵ |
| S1 | OI | Initial calibration (ICAL) | | | | | |
| | | Were response factors and/or relative response factors for each analyte within QC limits? | X | | | | |
| | | Were percent RSDs or correlation coefficient criteria met? | X | | | | |
| | | Was the number of standards recommended in the method used for all analytes? | X | | | | |
| | | Were all points generated between the lowest and highest standard used to calculate the curve? | X | | | | |
| | | Are ICAL data available for all instruments used? | X | | | | |
| | | Has the initial calibration curve been verified using an appropriate second source standard? | X | | | | |
| S2 | OI | Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB): | | | | | |
| | | Was the CCV analyzed at the method-required frequency? | X | | | | |
| | | Were percent differences for each analyte within the method-required QC limits? | X | | | | |
| | | Was the ICAL curve verified for each analyte? | X | | | | |
| | | Was the absolute value of the analyte concentration in the inorganic CCB < MDL? | | | | X | |
| S3 | O | Mass spectral tuning | | | | | |
| | | Was the appropriate compound for the method used for tuning? | X | | | | |
| | | Were ion abundance data within the method-required QC limits? | X | | | | |
| S4 | O | Internal standards (IS) | | | | | |
| | | Were IS area counts and retention times within the method-required QC limits? | X | | | | |
| S5 | OI | Raw data (NELAC Section 5.5.10) | | | | | |
| | | Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst? | X | | | | |
| | | Were data associated with manual integrations flagged on the raw data? | X | | | | |
| S6 | O | Dual column confirmation | | | | | |
| | | Did dual column confirmation results meet the method-required QC? | | | | X | |
| S7 | O | Tentatively identified compounds (TICs) | | | | | |
| | | If TICs were requested, were the mass spectra and TIC data subject to appropriate checks? | | | | X | |
| S8 | I | Interference Check Sample (ICS) results | | | | | |
| | | Were percent recoveries within method QC limits? | | | | X | |
| S9 | I | Serial dilutions, post digestion spikes, and method of standard additions | | | | | |
| | | Were percent differences, recoveries, and the linearity within the QC limits specified in the method? | | | | X | |
| S10 | OI | Method detection limit (MDL) studies | | | | | |
| | | Was a MDL study performed for each reported analyte? | X | | | | |
| | | Is the MDL either adjusted or supported by the analysis of DCSs? | X | | | | |
| S11 | OI | Proficiency test reports | | | | | |
| | | Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies? | X | | | | |
| S12 | OI | Standards documentation | | | | | |
| | | Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources? | X | | | | |
| S13 | OI | Compound/analyte identification procedures | | | | | |
| | | Are the procedures for compound/analyte identification documented? | X | | | | |
| S14 | OI | Demonstration of analyst competency (DOC) | | | | | |
| | | Was DOC conducted consistent with NELAC Chapter 5? | X | | | | |
| | | Is documentation of the analyst's competency up-to-date and on file? | X | | | | |
| S15 | OI | Verification/validation documentation for methods (NELAC Chapter 5) | | | | | |
| | | Are all the methods used to generate the data documented, verified, and validated, where applicable? | X | | | | |
| S16 | OI | Laboratory standard operating procedures (SOPs) | | | | | |
| | | Are laboratory SOPs current and on file for each method performed | X | | | | |

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

3. NA = Not applicable;

4. NR = Not reviewed;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

| Laboratory Name: Pace Analytical National | LRC Date: 09/28/2022 16:41 |
|---|---|
| Project Name: Rosedale Project | Laboratory Job Number: L1538557-01, 02, 03, 04, 05, 06 and 07 |
| Reviewer Name: Jennifer A McCurdy | Prep Batch Number(s): WG1932122 and WG1933255 |
| ER # ¹ | Description |

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
 3. NA = Not applicable;
 4. NR = Not reviewed;
 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|----------|-------|--------|--------|-----------|----------|---------------------------|
| | | | ppbv | ug/m3 | ppbv | ug/m3 | | | |
| Benzene | 71-43-2 | 78.10 | 0.200 | 0.639 | 0.605 | 1.93 | | 1 | WG1932122 |
| Chloroethane | 75-00-3 | 64.50 | 0.200 | 0.528 | ND | ND | | 1 | WG1932122 |
| 1,2-Dichloroethane | 107-06-2 | 99 | 0.200 | 0.810 | ND | ND | | 1 | WG1932122 |
| 1,1-Dichloroethane | 75-34-3 | 98 | 0.200 | 0.802 | ND | ND | | 1 | WG1932122 |
| cis-1,2-Dichloroethene | 156-59-2 | 96.90 | 0.200 | 0.793 | ND | ND | | 1 | WG1932122 |
| trans-1,2-Dichloroethene | 156-60-5 | 96.90 | 0.200 | 0.793 | ND | ND | | 1 | WG1932122 |
| Ethylbenzene | 100-41-4 | 106 | 0.200 | 0.867 | 0.249 | 1.08 | | 1 | WG1932122 |
| 4-Ethyltoluene | 622-96-8 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| Isopropylbenzene | 98-82-8 | 120.20 | 0.200 | 0.983 | ND | ND | | 1 | WG1932122 |
| Methylene Chloride | 75-09-2 | 84.90 | 0.200 | 0.694 | 0.355 | 1.23 | | 1 | WG1932122 |
| 2-Butanone (MEK) | 78-93-3 | 72.10 | 1.25 | 3.69 | 2.34 | 6.90 | | 1 | WG1932122 |
| MTBE | 1634-04-4 | 88.10 | 0.200 | 0.721 | ND | ND | | 1 | WG1932122 |
| Naphthalene | 91-20-3 | 128 | 0.630 | 3.30 | ND | ND | | 1 | WG1932122 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 168 | 0.200 | 1.37 | ND | ND | | 1 | WG1932122 |
| Tetrachloroethylene | 127-18-4 | 166 | 0.200 | 1.36 | 0.593 | 4.03 | B | 1 | WG1932122 |
| Toluene | 108-88-3 | 92.10 | 0.500 | 1.88 | 0.983 | 3.70 | | 1 | WG1932122 |
| 1,1,1-Trichloroethane | 71-55-6 | 133 | 0.200 | 1.09 | ND | ND | | 1 | WG1932122 |
| 1,1,2-Trichloroethane | 79-00-5 | 133 | 0.200 | 1.09 | ND | ND | | 1 | WG1932122 |
| Trichloroethylene | 79-01-6 | 131 | 0.200 | 1.07 | ND | ND | | 1 | WG1932122 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.22 | 0.200 | 0.934 | 4.25 | 19.9 | | 1 | WG1932122 |
| Vinyl chloride | 75-01-4 | 62.50 | 0.200 | 0.511 | ND | ND | | 1 | WG1932122 |
| m&p-Xylene | 1330-20-7 | 106 | 0.400 | 1.73 | 0.864 | 3.75 | | 1 | WG1932122 |
| o-Xylene | 95-47-6 | 106 | 0.200 | 0.867 | 0.363 | 1.57 | | 1 | WG1932122 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 101 | | | | WG1932122 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|----------|-------|--------|--------|-----------|----------|---------------------------|
| Benzene | 71-43-2 | 78.10 | 0.200 | 0.639 | 0.443 | 1.42 | | 1 | WG1932122 |
| Chloroethane | 75-00-3 | 64.50 | 0.200 | 0.528 | ND | ND | | 1 | WG1932122 |
| 1,2-Dichloroethane | 107-06-2 | 99 | 0.200 | 0.810 | ND | ND | | 1 | WG1932122 |
| 1,1-Dichloroethane | 75-34-3 | 98 | 0.200 | 0.802 | ND | ND | | 1 | WG1932122 |
| cis-1,2-Dichloroethene | 156-59-2 | 96.90 | 0.200 | 0.793 | ND | ND | | 1 | WG1932122 |
| trans-1,2-Dichloroethene | 156-60-5 | 96.90 | 0.200 | 0.793 | ND | ND | | 1 | WG1932122 |
| Ethylbenzene | 100-41-4 | 106 | 0.200 | 0.867 | ND | ND | | 1 | WG1932122 |
| 4-Ethyltoluene | 622-96-8 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| Isopropylbenzene | 98-82-8 | 120.20 | 0.200 | 0.983 | ND | ND | | 1 | WG1932122 |
| Methylene Chloride | 75-09-2 | 84.90 | 0.200 | 0.694 | ND | ND | | 1 | WG1932122 |
| 2-Butanone (MEK) | 78-93-3 | 72.10 | 1.25 | 3.69 | ND | ND | | 1 | WG1932122 |
| MTBE | 1634-04-4 | 88.10 | 0.200 | 0.721 | ND | ND | | 1 | WG1932122 |
| Naphthalene | 91-20-3 | 128 | 0.630 | 3.30 | ND | ND | | 1 | WG1932122 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 168 | 0.200 | 1.37 | ND | ND | | 1 | WG1932122 |
| Tetrachloroethylene | 127-18-4 | 166 | 0.200 | 1.36 | 0.234 | 1.59 | B | 1 | WG1932122 |
| Toluene | 108-88-3 | 92.10 | 0.500 | 1.88 | ND | ND | | 1 | WG1932122 |
| 1,1,1-Trichloroethane | 71-55-6 | 133 | 0.200 | 1.09 | ND | ND | | 1 | WG1932122 |
| 1,1,2-Trichloroethane | 79-00-5 | 133 | 0.200 | 1.09 | ND | ND | | 1 | WG1932122 |
| Trichloroethylene | 79-01-6 | 131 | 0.200 | 1.07 | ND | ND | | 1 | WG1932122 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.22 | 0.200 | 0.934 | 11.4 | 53.3 | | 1 | WG1932122 |
| Vinyl chloride | 75-01-4 | 62.50 | 0.200 | 0.511 | ND | ND | | 1 | WG1932122 |
| m&p-Xylene | 1330-20-7 | 106 | 0.400 | 1.73 | 0.556 | 2.41 | | 1 | WG1932122 |
| o-Xylene | 95-47-6 | 106 | 0.200 | 0.867 | ND | ND | | 1 | WG1932122 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 100 | | | | WG1932122 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|----------|-------|--------|--------|-----------|----------|---------------------------|
| Benzene | 71-43-2 | 78.10 | 0.200 | 0.639 | 0.883 | 2.82 | | 1 | WG1932122 |
| Chloroethane | 75-00-3 | 64.50 | 0.200 | 0.528 | ND | ND | | 1 | WG1932122 |
| 1,2-Dichloroethane | 107-06-2 | 99 | 0.200 | 0.810 | ND | ND | | 1 | WG1932122 |
| 1,1-Dichloroethane | 75-34-3 | 98 | 0.200 | 0.802 | ND | ND | | 1 | WG1932122 |
| cis-1,2-Dichloroethene | 156-59-2 | 96.90 | 0.200 | 0.793 | ND | ND | | 1 | WG1932122 |
| trans-1,2-Dichloroethene | 156-60-5 | 96.90 | 0.200 | 0.793 | ND | ND | | 1 | WG1932122 |
| Ethylbenzene | 100-41-4 | 106 | 0.200 | 0.867 | ND | ND | | 1 | WG1932122 |
| 4-Ethyltoluene | 622-96-8 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| Isopropylbenzene | 98-82-8 | 120.20 | 0.200 | 0.983 | ND | ND | | 1 | WG1932122 |
| Methylene Chloride | 75-09-2 | 84.90 | 0.200 | 0.694 | 0.363 | 1.26 | | 1 | WG1932122 |
| 2-Butanone (MEK) | 78-93-3 | 72.10 | 1.25 | 3.69 | 1.40 | 4.13 | | 1 | WG1932122 |
| MTBE | 1634-04-4 | 88.10 | 0.200 | 0.721 | ND | ND | | 1 | WG1932122 |
| Naphthalene | 91-20-3 | 128 | 0.630 | 3.30 | ND | ND | | 1 | WG1932122 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 168 | 0.200 | 1.37 | ND | ND | | 1 | WG1932122 |
| Tetrachloroethylene | 127-18-4 | 166 | 0.200 | 1.36 | 0.548 | 3.72 | B | 1 | WG1932122 |
| Toluene | 108-88-3 | 92.10 | 0.500 | 1.88 | 1.02 | 3.84 | | 1 | WG1932122 |
| 1,1,1-Trichloroethane | 71-55-6 | 133 | 0.200 | 1.09 | ND | ND | | 1 | WG1932122 |
| 1,1,2-Trichloroethane | 79-00-5 | 133 | 0.200 | 1.09 | ND | ND | | 1 | WG1932122 |
| Trichloroethylene | 79-01-6 | 131 | 0.200 | 1.07 | ND | ND | | 1 | WG1932122 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.22 | 0.200 | 0.934 | 19.6 | 91.6 | | 1 | WG1932122 |
| Vinyl chloride | 75-01-4 | 62.50 | 0.200 | 0.511 | ND | ND | | 1 | WG1932122 |
| m&p-Xylene | 1330-20-7 | 106 | 0.400 | 1.73 | 0.702 | 3.04 | | 1 | WG1932122 |
| o-Xylene | 95-47-6 | 106 | 0.200 | 0.867 | 0.246 | 1.07 | | 1 | WG1932122 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 97.9 | | | | WG1932122 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|----------|-------|--------|---------|-----------|----------|---------------------------|
| | | | ppbv | ug/m3 | ppbv | ug/m3 | | | |
| Benzene | 71-43-2 | 78.10 | 2000 | 6390 | 16600 | 53000 | | 10000 | WG1933255 |
| Chloroethane | 75-00-3 | 64.50 | 20.0 | 52.8 | ND | ND | | 100 | WG1932122 |
| 1,2-Dichloroethane | 107-06-2 | 99 | 20.0 | 81.0 | ND | ND | | 100 | WG1932122 |
| 1,1-Dichloroethane | 75-34-3 | 98 | 20.0 | 80.2 | ND | ND | | 100 | WG1932122 |
| cis-1,2-Dichloroethene | 156-59-2 | 96.90 | 20.0 | 79.3 | ND | ND | | 100 | WG1932122 |
| trans-1,2-Dichloroethene | 156-60-5 | 96.90 | 20.0 | 79.3 | ND | ND | | 100 | WG1932122 |
| Ethylbenzene | 100-41-4 | 106 | 20.0 | 86.7 | ND | ND | | 100 | WG1932122 |
| 4-Ethyltoluene | 622-96-8 | 120 | 20.0 | 98.2 | 529 | 2600 | | 100 | WG1932122 |
| Isopropylbenzene | 98-82-8 | 120.20 | 20.0 | 98.3 | 2590 | 12700 | | 100 | WG1932122 |
| Methylene Chloride | 75-09-2 | 84.90 | 20.0 | 69.4 | 72.3 | 251 | | 100 | WG1932122 |
| 2-Butanone (MEK) | 78-93-3 | 72.10 | 125 | 369 | ND | ND | | 100 | WG1932122 |
| MTBE | 1634-04-4 | 88.10 | 20.0 | 72.1 | ND | ND | | 100 | WG1932122 |
| Naphthalene | 91-20-3 | 128 | 63.0 | 330 | ND | ND | | 100 | WG1932122 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 168 | 20.0 | 137 | ND | ND | | 100 | WG1932122 |
| Tetrachloroethylene | 127-18-4 | 166 | 20.0 | 136 | ND | ND | | 100 | WG1932122 |
| Toluene | 108-88-3 | 92.10 | 50.0 | 188 | 766 | 2890 | | 100 | WG1932122 |
| 1,1,1-Trichloroethane | 71-55-6 | 133 | 20.0 | 109 | ND | ND | | 100 | WG1932122 |
| 1,1,2-Trichloroethane | 79-00-5 | 133 | 20.0 | 109 | ND | ND | | 100 | WG1932122 |
| Trichloroethylene | 79-01-6 | 131 | 20.0 | 107 | ND | ND | | 100 | WG1932122 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120 | 20.0 | 98.2 | ND | ND | | 100 | WG1932122 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120 | 20.0 | 98.2 | ND | ND | | 100 | WG1932122 |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.22 | 2000 | 9340 | 938000 | 4380000 | | 10000 | WG1933255 |
| Vinyl chloride | 75-01-4 | 62.50 | 20.0 | 51.1 | ND | ND | | 100 | WG1932122 |
| m&p-Xylene | 1330-20-7 | 106 | 40.0 | 173 | ND | ND | | 100 | WG1932122 |
| o-Xylene | 95-47-6 | 106 | 20.0 | 86.7 | ND | ND | | 100 | WG1932122 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 182 | | J1 | | WG1932122 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 96.1 | | | | WG1933255 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Sample Narrative:

L1538557-04 WG1932122: Surrogate failure due to matrix interference

Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result ppbv | Result ug/m3 | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|----------|-------|----------------|-----------------|-----------|----------|---------------------------|
| Benzene | 71-43-2 | 78.10 | 0.200 | 0.639 | 0.621 | 1.98 | | 1 | WG1932122 |
| Chloroethane | 75-00-3 | 64.50 | 0.200 | 0.528 | ND | ND | | 1 | WG1932122 |
| 1,2-Dichloroethane | 107-06-2 | 99 | 0.200 | 0.810 | ND | ND | | 1 | WG1932122 |
| 1,1-Dichloroethane | 75-34-3 | 98 | 0.200 | 0.802 | ND | ND | | 1 | WG1932122 |
| cis-1,2-Dichloroethene | 156-59-2 | 96.90 | 0.200 | 0.793 | ND | ND | | 1 | WG1932122 |
| trans-1,2-Dichloroethene | 156-60-5 | 96.90 | 0.200 | 0.793 | ND | ND | | 1 | WG1932122 |
| Ethylbenzene | 100-41-4 | 106 | 0.200 | 0.867 | 0.268 | 1.16 | | 1 | WG1932122 |
| 4-Ethyltoluene | 622-96-8 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| Isopropylbenzene | 98-82-8 | 120.20 | 0.200 | 0.983 | ND | ND | | 1 | WG1932122 |
| Methylene Chloride | 75-09-2 | 84.90 | 0.200 | 0.694 | 0.240 | 0.833 | | 1 | WG1932122 |
| 2-Butanone (MEK) | 78-93-3 | 72.10 | 1.25 | 3.69 | 2.23 | 6.58 | | 1 | WG1932122 |
| MTBE | 1634-04-4 | 88.10 | 0.200 | 0.721 | ND | ND | | 1 | WG1932122 |
| Naphthalene | 91-20-3 | 128 | 0.630 | 3.30 | ND | ND | | 1 | WG1932122 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 168 | 0.200 | 1.37 | ND | ND | | 1 | WG1932122 |
| Tetrachloroethylene | 127-18-4 | 166 | 0.200 | 1.36 | 0.719 | 4.88 | B | 1 | WG1932122 |
| Toluene | 108-88-3 | 92.10 | 0.500 | 1.88 | 0.721 | 2.72 | | 1 | WG1932122 |
| 1,1,1-Trichloroethane | 71-55-6 | 133 | 0.200 | 1.09 | ND | ND | | 1 | WG1932122 |
| 1,1,2-Trichloroethane | 79-00-5 | 133 | 0.200 | 1.09 | ND | ND | | 1 | WG1932122 |
| Trichloroethylene | 79-01-6 | 131 | 0.200 | 1.07 | ND | ND | | 1 | WG1932122 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.22 | 0.200 | 0.934 | 23.9 | 112 | | 1 | WG1932122 |
| Vinyl chloride | 75-01-4 | 62.50 | 0.200 | 0.511 | ND | ND | | 1 | WG1932122 |
| m&p-Xylene | 1330-20-7 | 106 | 0.400 | 1.73 | 0.799 | 3.46 | | 1 | WG1932122 |
| o-Xylene | 95-47-6 | 106 | 0.200 | 0.867 | 0.338 | 1.47 | | 1 | WG1932122 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 98.6 | | | | WG1932122 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|----------|-------|--------|--------|-----------|----------|---------------------------|
| | | | ppbv | ug/m3 | ppbv | ug/m3 | | | |
| Benzene | 71-43-2 | 78.10 | 0.200 | 0.639 | 0.649 | 2.07 | | 1 | WG1932122 |
| Chloroethane | 75-00-3 | 64.50 | 0.200 | 0.528 | ND | ND | | 1 | WG1932122 |
| 1,2-Dichloroethane | 107-06-2 | 99 | 0.200 | 0.810 | ND | ND | | 1 | WG1932122 |
| 1,1-Dichloroethane | 75-34-3 | 98 | 0.200 | 0.802 | ND | ND | | 1 | WG1932122 |
| cis-1,2-Dichloroethene | 156-59-2 | 96.90 | 0.200 | 0.793 | ND | ND | | 1 | WG1932122 |
| trans-1,2-Dichloroethene | 156-60-5 | 96.90 | 0.200 | 0.793 | ND | ND | | 1 | WG1932122 |
| Ethylbenzene | 100-41-4 | 106 | 0.200 | 0.867 | ND | ND | | 1 | WG1932122 |
| 4-Ethyltoluene | 622-96-8 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| Isopropylbenzene | 98-82-8 | 120.20 | 0.200 | 0.983 | ND | ND | | 1 | WG1932122 |
| Methylene Chloride | 75-09-2 | 84.90 | 0.200 | 0.694 | ND | ND | | 1 | WG1932122 |
| 2-Butanone (MEK) | 78-93-3 | 72.10 | 1.25 | 3.69 | ND | ND | | 1 | WG1932122 |
| MTBE | 1634-04-4 | 88.10 | 0.200 | 0.721 | ND | ND | | 1 | WG1932122 |
| Naphthalene | 91-20-3 | 128 | 0.630 | 3.30 | ND | ND | | 1 | WG1932122 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 168 | 0.200 | 1.37 | ND | ND | | 1 | WG1932122 |
| Tetrachloroethylene | 127-18-4 | 166 | 0.200 | 1.36 | 0.404 | 2.74 | B | 1 | WG1932122 |
| Toluene | 108-88-3 | 92.10 | 0.500 | 1.88 | 0.955 | 3.60 | | 1 | WG1932122 |
| 1,1,1-Trichloroethane | 71-55-6 | 133 | 0.200 | 1.09 | ND | ND | | 1 | WG1932122 |
| 1,1,2-Trichloroethane | 79-00-5 | 133 | 0.200 | 1.09 | ND | ND | | 1 | WG1932122 |
| Trichloroethylene | 79-01-6 | 131 | 0.200 | 1.07 | ND | ND | | 1 | WG1932122 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.22 | 0.200 | 0.934 | 26.8 | 125 | | 1 | WG1932122 |
| Vinyl chloride | 75-01-4 | 62.50 | 0.200 | 0.511 | ND | ND | | 1 | WG1932122 |
| m&p-Xylene | 1330-20-7 | 106 | 0.400 | 1.73 | 0.568 | 2.46 | | 1 | WG1932122 |
| o-Xylene | 95-47-6 | 106 | 0.200 | 0.867 | ND | ND | | 1 | WG1932122 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 98.1 | | | | WG1932122 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

Volatile Organic Compounds (MS) by Method TO-15

| Analyte | CAS # | Mol. Wt. | RDL1 | RDL2 | Result | Result | Qualifier | Dilution | Batch |
|----------------------------|-----------|----------|----------|-------|--------|--------|-----------|----------|---------------------------|
| | | | ppbv | ug/m3 | ppbv | ug/m3 | | | |
| Benzene | 71-43-2 | 78.10 | 0.200 | 0.639 | 0.503 | 1.61 | | 1 | WG1932122 |
| Chloroethane | 75-00-3 | 64.50 | 0.200 | 0.528 | ND | ND | | 1 | WG1932122 |
| 1,2-Dichloroethane | 107-06-2 | 99 | 0.200 | 0.810 | ND | ND | | 1 | WG1932122 |
| 1,1-Dichloroethane | 75-34-3 | 98 | 0.200 | 0.802 | ND | ND | | 1 | WG1932122 |
| cis-1,2-Dichloroethene | 156-59-2 | 96.90 | 0.200 | 0.793 | ND | ND | | 1 | WG1932122 |
| trans-1,2-Dichloroethene | 156-60-5 | 96.90 | 0.200 | 0.793 | ND | ND | | 1 | WG1932122 |
| Ethylbenzene | 100-41-4 | 106 | 0.200 | 0.867 | ND | ND | | 1 | WG1932122 |
| 4-Ethyltoluene | 622-96-8 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| Isopropylbenzene | 98-82-8 | 120.20 | 0.200 | 0.983 | ND | ND | | 1 | WG1932122 |
| Methylene Chloride | 75-09-2 | 84.90 | 0.200 | 0.694 | 0.441 | 1.53 | | 1 | WG1932122 |
| 2-Butanone (MEK) | 78-93-3 | 72.10 | 1.25 | 3.69 | 1.28 | 3.77 | | 1 | WG1932122 |
| MTBE | 1634-04-4 | 88.10 | 0.200 | 0.721 | ND | ND | | 1 | WG1932122 |
| Naphthalene | 91-20-3 | 128 | 0.630 | 3.30 | ND | ND | | 1 | WG1932122 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 168 | 0.200 | 1.37 | ND | ND | | 1 | WG1932122 |
| Tetrachloroethylene | 127-18-4 | 166 | 0.200 | 1.36 | 5.09 | 34.6 | | 1 | WG1932122 |
| Toluene | 108-88-3 | 92.10 | 0.500 | 1.88 | 0.649 | 2.44 | | 1 | WG1932122 |
| 1,1,1-Trichloroethane | 71-55-6 | 133 | 0.200 | 1.09 | ND | ND | | 1 | WG1932122 |
| 1,1,2-Trichloroethane | 79-00-5 | 133 | 0.200 | 1.09 | ND | ND | | 1 | WG1932122 |
| Trichloroethylene | 79-01-6 | 131 | 0.200 | 1.07 | ND | ND | | 1 | WG1932122 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 120 | 0.200 | 0.982 | ND | ND | | 1 | WG1932122 |
| 2,2,4-Trimethylpentane | 540-84-1 | 114.22 | 0.200 | 0.934 | 24.6 | 115 | | 1 | WG1932122 |
| Vinyl chloride | 75-01-4 | 62.50 | 0.200 | 0.511 | ND | ND | | 1 | WG1932122 |
| m&p-Xylene | 1330-20-7 | 106 | 0.400 | 1.73 | ND | ND | | 1 | WG1932122 |
| o-Xylene | 95-47-6 | 106 | 0.200 | 0.867 | ND | ND | | 1 | WG1932122 |
| (S) 1,4-Bromofluorobenzene | 460-00-4 | 175 | 60.0-140 | | 101 | | | | WG1932122 |

¹ Cp² Tc³ Ss⁴ Cn⁵ Tr⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc

QUALITY CONTROL SUMMARY

[L1538557-01,02,03,04,05,06,07](#)

Method Blank (MB)

(MB) R3841772-2 09/25/22 10:20

| Analyte | MB Result ppbv | MB Qualifier | MB MDL ppbv | MB RDL ppbv | | | | | | | | | | | | | | | |
|----------------------------|-------------------|--------------|----------------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------------------|
| Benzene | U | | 0.0715 | 0.200 | | | | | | | | | | | | | | | ¹ Cp |
| Chloroethane | U | | 0.0996 | 0.200 | | | | | | | | | | | | | | | ² Tc |
| 1,2-Dichloroethane | U | | 0.0700 | 0.200 | | | | | | | | | | | | | | | ³ Ss |
| 1,1-Dichloroethane | U | | 0.0723 | 0.200 | | | | | | | | | | | | | | | ⁴ Cn |
| 1,1-Dichloroethene | U | | 0.0762 | 0.200 | | | | | | | | | | | | | | | ⁵ Tr |
| cis-1,2-Dichloroethene | U | | 0.0784 | 0.200 | | | | | | | | | | | | | | | ⁶ Sr |
| trans-1,2-Dichloroethene | U | | 0.0673 | 0.200 | | | | | | | | | | | | | | | ⁷ Qc |
| Ethylbenzene | U | | 0.0835 | 0.200 | | | | | | | | | | | | | | | ⁸ Gl |
| 4-Ethyltoluene | U | | 0.0783 | 0.200 | | | | | | | | | | | | | | | ⁹ Al |
| Isopropylbenzene | U | | 0.0777 | 0.200 | | | | | | | | | | | | | | | ¹⁰ Sc |
| Methylene Chloride | U | | 0.0979 | 0.200 | | | | | | | | | | | | | | | |
| 2-Butanone (MEK) | U | | 0.0814 | 1.25 | | | | | | | | | | | | | | | |
| MTBE | U | | 0.0647 | 0.200 | | | | | | | | | | | | | | | |
| Naphthalene | U | | 0.350 | 0.630 | | | | | | | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | U | | 0.0743 | 0.200 | | | | | | | | | | | | | | | |
| Tetrachloroethylene | 0.0936 | J | 0.0814 | 0.200 | | | | | | | | | | | | | | | |
| Toluene | U | | 0.0870 | 0.500 | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | U | | 0.0736 | 0.200 | | | | | | | | | | | | | | | |
| 1,1,2-Trichloroethane | U | | 0.0775 | 0.200 | | | | | | | | | | | | | | | |
| Trichloroethylene | U | | 0.0680 | 0.200 | | | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | U | | 0.0764 | 0.200 | | | | | | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | U | | 0.0779 | 0.200 | | | | | | | | | | | | | | | |
| 2,2,4-Trimethylpentane | U | | 0.133 | 0.200 | | | | | | | | | | | | | | | |
| Vinyl chloride | U | | 0.0949 | 0.200 | | | | | | | | | | | | | | | |
| m&p-Xylene | U | | 0.135 | 0.400 | | | | | | | | | | | | | | | |
| o-Xylene | U | | 0.0828 | 0.200 | | | | | | | | | | | | | | | |
| (S) 1,4-Bromofluorobenzene | 99.8 | | | 60.0-140 | | | | | | | | | | | | | | | |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3841772-3 09/25/22 13:10 • (LCSD) R3841772-1 09/25/22 09:50

| Analyte | Spike Amount ppbv | LCS Result ppbv | LCSD Result ppbv | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene | 3.75 | 3.79 | 3.99 | 101 | 106 | 70.0-130 | | | 5.14 | 25 |
| Chloroethane | 3.75 | 3.93 | 4.16 | 105 | 111 | 70.0-130 | | | 5.69 | 25 |
| 1,2-Dichloroethane | 3.75 | 3.83 | 4.03 | 102 | 107 | 70.0-130 | | | 5.09 | 25 |
| 1,1-Dichloroethane | 3.75 | 3.85 | 4.06 | 103 | 108 | 70.0-130 | | | 5.31 | 25 |
| 1,1-Dichloroethene | 3.75 | 3.93 | 4.19 | 105 | 112 | 70.0-130 | | | 6.40 | 25 |
| cis-1,2-Dichloroethene | 3.75 | 3.87 | 4.09 | 103 | 109 | 70.0-130 | | | 5.53 | 25 |

QUALITY CONTROL SUMMARY

[L1538557-01,02,03,04,05,06,07](#)

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3841772-3 09/25/22 13:10 • (LCSD) R3841772-1 09/25/22 09:50

| Analyte | Spike Amount ppbv | LCS Result ppbv | LCSD Result ppbv | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| trans-1,2-Dichloroethene | 3.75 | 3.93 | 4.16 | 105 | 111 | 70.0-130 | | | 5.69 | 25 |
| Ethylbenzene | 3.75 | 3.98 | 4.14 | 106 | 110 | 70.0-130 | | | 3.94 | 25 |
| 4-Ethyltoluene | 3.75 | 4.06 | 4.29 | 108 | 114 | 70.0-130 | | | 5.51 | 25 |
| Isopropylbenzene | 3.75 | 3.96 | 4.22 | 106 | 113 | 70.0-130 | | | 6.36 | 25 |
| Methylene Chloride | 3.75 | 3.92 | 4.25 | 105 | 113 | 70.0-130 | | | 8.08 | 25 |
| Methyl Ethyl Ketone | 3.75 | 3.81 | 4.12 | 102 | 110 | 70.0-130 | | | 7.82 | 25 |
| MTBE | 3.75 | 3.94 | 4.18 | 105 | 111 | 70.0-130 | | | 5.91 | 25 |
| Naphthalene | 3.75 | 4.14 | 4.41 | 110 | 118 | 70.0-159 | | | 6.32 | 25 |
| 1,1,2,2-Tetrachloroethane | 3.75 | 4.00 | 4.20 | 107 | 112 | 70.0-130 | | | 4.88 | 25 |
| Tetrachloroethylene | 3.75 | 4.28 | 4.08 | 114 | 109 | 70.0-130 | | | 4.78 | 25 |
| Toluene | 3.75 | 3.85 | 4.07 | 103 | 109 | 70.0-130 | | | 5.56 | 25 |
| 1,1,1-Trichloroethane | 3.75 | 3.79 | 4.01 | 101 | 107 | 70.0-130 | | | 5.64 | 25 |
| 1,1,2-Trichloroethane | 3.75 | 3.78 | 4.00 | 101 | 107 | 70.0-130 | | | 5.66 | 25 |
| Trichloroethylene | 3.75 | 3.86 | 4.05 | 103 | 108 | 70.0-130 | | | 4.80 | 25 |
| 1,2,4-Trimethylbenzene | 3.75 | 4.06 | 4.34 | 108 | 116 | 70.0-130 | | | 6.67 | 25 |
| 1,3,5-Trimethylbenzene | 3.75 | 4.03 | 4.35 | 107 | 116 | 70.0-130 | | | 7.64 | 25 |
| 2,2,4-Trimethylpentane | 3.75 | 3.87 | 4.14 | 103 | 110 | 70.0-130 | | | 6.74 | 25 |
| Vinyl chloride | 3.75 | 4.05 | 4.32 | 108 | 115 | 70.0-130 | | | 6.45 | 25 |
| m&p-Xylene | 7.50 | 8.20 | 8.60 | 109 | 115 | 70.0-130 | | | 4.76 | 25 |
| o-Xylene | 3.75 | 3.97 | 4.18 | 106 | 111 | 70.0-130 | | | 5.15 | 25 |
| (S) 1,4-Bromofluorobenzene | | | | 100 | 101 | 60.0-140 | | | | |

¹Cp²Tc³Ss⁴Cn⁵Tr⁶Sr⁷Qc⁸Gl⁹Al¹⁰Sc

QUALITY CONTROL SUMMARY

[L1538557-04](#)

Method Blank (MB)

(MB) R3842111-3 09/28/22 00:05

| Analyte | MB Result ppbv | <u>MB Qualifier</u> | MB MDL ppbv | MB RDL ppbv |
|----------------------------|-------------------|---------------------|----------------|----------------|
| Benzene | U | | 0.0715 | 0.200 |
| 2,2,4-Trimethylpentane | U | | 0.133 | 0.200 |
| (S) 1,4-Bromofluorobenzene | 95.0 | | | 60.0-140 |

¹Cp²Tc³Ss⁴Cn⁵Tr⁶Sr⁷Qc⁸Gl⁹Al¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3842111-1 09/27/22 23:06 • (LCSD) R3842111-2 09/27/22 23:36

| Analyte | Spike Amount ppbv | LCS Result ppbv | LCSD Result ppbv | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|----------------------------|----------------------|--------------------|---------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Benzene | 3.75 | 3.95 | 3.91 | 105 | 104 | 70.0-130 | | | 1.02 | 25 |
| 2,2,4-Trimethylpentane | 3.75 | 4.17 | 4.16 | 111 | 111 | 70.0-130 | | | 0.240 | 25 |
| (S) 1,4-Bromofluorobenzene | | | 102 | 101 | | 60.0-140 | | | | |

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

| | | |
|------------------------------|--|------------------|
| MDL | Method Detection Limit. | ¹ Cp |
| ND | Not detected at the Method Quantitation Limit. | ² Tc |
| RDL | Reported Detection Limit. | ³ Ss |
| Rec. | Recovery. | ⁴ Cn |
| RPD | Relative Percent Difference. | ⁵ Tr |
| SDG | Sample Delivery Group. | ⁶ Sr |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. | ⁷ Qc |
| U | Not detected at the Sample Detection Limit. | ⁸ Gl |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. | ⁹ Al |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. | ¹⁰ Sc |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. | |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. | |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. | |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. | |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. | |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. | |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. | |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. | |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. | |

Qualifier Description

| | |
|----|--|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J1 | Surrogate recovery limits have been exceeded; values are outside upper control limits. |

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey—NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio—VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky ^{1,6} | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee ^{1,4} | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA-Crypto | TN00003 | | |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Tr
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

From: [Lindquist, Kyle C](#)
To: [Jennifer Mccurdy](#)
Subject: RE: 95207647 Task 3.6 - Suma Canister Request
Date: Monday, September 19, 2022 1:59:00 PM
Attachments: [image001.png](#)

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thank you.

Kyle

Kyle C. Lindquist
Project Scientist | Environmental



1801 Handley Ederville Road | Fort Worth, Texas 76118
D (817) 591-2838 | O (817) 268-8600 | M (817) 991-9228
kyle.lindquist@terracon.com | Terracon.com

From: Jennifer Mccurdy <Jennifer.Mccurdy@pacelabs.com>
Sent: Monday, September 19, 2022 1:51 PM
To: Lindquist, Kyle C <Kyle.Lindquist@terracon.com>
Subject: RE: 95207647 Task 3.6 - Suma Canister Request

Air Shipping says yes, so I will get this scheduled now for tomorrow's delivery. ~Jen

From: Lindquist, Kyle C <Kyle.Lindquist@terracon.com>
Sent: Monday, September 19, 2022 1:27 PM
To: Jennifer Mccurdy <Jennifer.Mccurdy@pacelabs.com>
Subject: 95207647 Task 3.6 - Suma Canister Request

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Jen,

Would you be able to have 8 x 1-Liter suma canisters/sample trains delivered by EOD tomorrow?

95207647 task 3.6
Rosedale Project

Please let me know if this is possible.

Thank you,
Kyle

Kyle C. Lindquist
Project Scientist | Environmental



1801 Handley Ederville Road | Fort Worth, Texas 76118
D (817) 591-2838 | O (817) 268-8600 | M (817) 991-9228
kyle.lindquist@terracon.com | Terracon.com

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