

PARCEL 4 ADDITIONAL CHARACTERIZATION REPORT

CITY OF ALBUQUERQUE RAIL YARDS

Albuquerque, Bernalillo County, New Mexico



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ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
°F	degrees Fahrenheit
µg/L	micrograms per liter
µg/m ³	micrograms per cubic meter
ACBM	asbestos-containing building materials
ASTM	ASTM International
ATSF	Atchison, Topeka, and Santa Fe
Beacon	Beacon Environmental Services
BNSF	Burlington Northern Santa Fe
BTEX	benzene, toluene, ethylbenzene, and total xylenes
bgs	below ground surface
CCOC	Conditional Certificate of Completion
CNS	Covenant Not to Sue
COA	City of Albuquerque
COC	Certificate of Completion
COPC	contaminants of potential concern
Crisp	Crisp Analytical LLC
CSM	conceptual site model
DCE	DC Environmental
DRO	diesel range organics
EDB	1,2-dibromoethane
EPA	U.S. Environmental Protection Agency
ft	feet <i>or</i> foot
GRO	gasoline range organics
HEAL	Hall Environmental Analysis Laboratory
INTERA	INTERA Incorporated
LBP	lead-based paint
LNAPL	light non-aqueous phase liquid
MDL	method detection limit
mg/cm ²	milligrams per square centimeter
mg/kg	milligrams per kilogram

mL	milliliter
MRO	motor oil range organics
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
OSHA	Occupational Safety and Health Administration
PAH	polynuclear aromatic hydrocarbons
PID	photoionization detector
PRT	post run tubing
PPE	personal protective equipment
Report	this <i>Parcel 4 Additional Characterization Report</i>
RL	reporting detection limit
RMD	Radiation Monitoring Device
SIMs	selective ion monitoring
Site	Albuquerque Rail Yards located in downtown Albuquerque, New Mexico
SOW	Scope of Work (INTERA, 2016a)
SSL	Soil Screening Levels
SSHASP	site-specific health and safety plan
TPH	total petroleum hydrocarbons
VISL	vapor intrusion screening level
Vista	Vista Geosciences LLC VOC volatile organic compound
VRP	Voluntary Remediation Program (New Mexico Environment Department)
XRF	X-Ray Fluorescence

1.0 INTRODUCTION

In accordance with the Scope of Work (SOW) submitted on August 10, 2016 (INTERA, 2016a) to the City of Albuquerque (COA), INTERA Incorporated (INTERA) is submitting this *Parcel 4 Additional Characterization Report* (Report) documenting the completion of the additional characterization activities conducted at the Albuquerque Rail Yards (Site) located in downtown Albuquerque, New Mexico. This Report was completed in support of participation in the New Mexico Environmental Department (NMED) Voluntary Remediation Program (VRP) and ultimately, Site redevelopment. The Albuquerque Rail Yards consists of Areas A, B, C and Tract A. The Site location is presented on **Figure 1**.

1.1 Background

The Site is located between 2nd Street and Commercial Street in downtown Albuquerque, New Mexico, and comprises approximately 27 acres (Areas A, B, C and Tract A) located within the former Atchison, Topeka and Santa Fe (ATSF)/Burlington Northern Santa Fe (BNSF) Central Works Equipment Facility Railyard that operated from the 1880s to the early 1990s. As a result of previous operations, the Site sustained environmental impacts from both petroleum hydrocarbon and metal contamination. Contamination is present in both the Site vadose/unsaturated zone (Site soils and soil vapor) and in the saturated zone (Site groundwater) and includes residual light non-aqueous phase liquid (LNAPL), metals adsorbed to soil particles, organic vapors, and organic and inorganic solutes dissolved in groundwater.

Although substantial efforts have been made in the past to fully delineate contamination for impacted Site media, the extent of contamination is still unknown for certain media and Site areas and these are identified as data gaps in the Conceptual Site Model (CSM) developed for the Site (INTERA, 2015). In the CSM, INTERA concluded that the magnitude with which identified data gaps will impact Site redevelopment plans is dependent on the final redevelopment scenario(s) selected for the Site. Additional characterization sampling efforts at the Site should be conducted based on the redevelopment option(s) selected; however, full characterization or remediation of all impacted media may not be required if sufficient information exists to document that exposure pathways to these media are incomplete or if engineering controls are proposed that would render a potential exposure pathway incomplete. In addition, both asbestos-containing building materials (ACBM) and lead-based paint (LBP) were used in many of the remaining Site buildings; contamination related to these building materials will also need to be mitigated during any building demolition or building renovation activities.

Numerous environmental investigations have been conducted at the Albuquerque Rail Yards since 1991. Current soil and groundwater environmental contamination persists at the Site. The

nature and extent of the contamination within environmental media varies across the Site regarding depth and contaminants of potential concern (COPCs). Metal contamination in soils is generally more prevalent in the center and northern portions of the Site and petroleum hydrocarbon contamination persists in soils and groundwater in the central and southern portions of the Site. Based on the CSM developed for the Site, the following constituents are identified as Site soil COPCs (INTERA, 2016a):

- Residential: antimony, arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chromium, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, iron, lead, thallium, TPH DRO + MRO (the sum of total petroleum hydrocarbons [TPH] diesel range organics [DRO] plus motor oil range organics [MRO]), and TPH
- Industrial/occupational: arsenic, benzo(a)pyrene, lead, thallium, TPH DRO + MRO, and TPH
- Construction worker: arsenic, chromium, lead, manganese, and thallium

Additionally, based on the magnitude of Site soil petroleum hydrocarbon concentrations, residual LNAPL is likely present in Site soils in the southeastern portion of the Site.

The COA and the Site Developer, are seeking to complete Site redevelopment within the NMED VRP. By actively participating in the NMED VRP (and upon successful completion of any remediation actions deemed necessary), the COA will be able to obtain a Conditional Certificate of Completion (CCOC) and/or Certificate of Completion (COC) for either the entire Site or specific parcels at the Site. The CCOC or the COC will document that current conditions in a designated area(s) and/or throughout the Site meet applicable environmental quality standards and will provide NMED enforcement protection for the COA and liability protection for lenders. In addition, once a CCOC or COC is issued, a Covenant Not to Sue (CNS) may be transferred to a selected prospective purchaser and/or future owner of the Site.

The Site Developer has divided the Site into ten parcels (Parcel 1 – Parcel 10) for redevelopment purposes. The locations of the ten parcels are shown on **Figure 2a**. Parcel 4, which this Report highlights, is primarily a public open space that includes the area immediately south of the Machine Shop beneath the historic Bridge Crane and its steel support colonnade. At the eastern edge adjoining the Rail Line, Parcel 4 widens to include the footprint of the original Powerhouse recommended for presentation and the original Smokestack recommended for reconstruction. Parcel 4 is intended as a major public assembly area supporting a covered outdoor Farmers/Artisan Market and Public Events Venue under the Bridge Crane and an Educational Center located adjacent to the proposed Smokestack (**Figure 2b**). Such a location on the south side of the Machine shop will have maximum daytime and nighttime visibility from drivers

along the Avenida Cesar Chavez overpass and will provide direct access to the Barelas neighborhood through the entry portal that once served as the primary entrance to the historic Albuquerque Rail Yards site.

The proposed location will draw people onto the Site, provide potential visitors to the existing WHEELS museum on Parcel 3, and provide easy vehicular access for deliveries from 2nd Street to support the Public Market concept. Locating the market adjacent to the historic site entrance will also serve to re-acquaint Albuquerque residents with the Site. Similar to Parcels 1 and 3, Parcel 4 is understood as a community-oriented parcel that supports and complements the cultural uses on the Site (Samitaur, 2014).

1.2 Scope of Work

INTERA developed a SOW to complete additional characterization activities throughout the Site to fill in the data gaps identified in the CSM (INTERA, 2015). Although the Site redevelopment plan has been developed (a public assembly area, potentially used for farmers/artisan markets), additional characterization activities to ensure data collection that provides good spatial coverage, and for a site-wide residential redevelopment scenario, to allow flexibility for a potential change of redevelopment plans while also evaluating construction worker safety. The additional characterization in Parcel 4, specifically, includes the sampling of Site soils and soil vapor. For soil, the primary concern is the potential for exposing construction workers to soil impacted with metals and/or petroleum hydrocarbons during excavation activities required as part of redevelopment. Soil vapor is an environmental concern due to the potential for exposure to volatile organic compounds (VOCs) resulting from vapor intrusion due to the established presence of VOC constituents in Site surface and near-surface soils and in Site groundwater. The future occupants of the property are considered the potential receptors. The CSM developed for the Site (INTERA, 2015), VRP Preliminary Work Plan (INTERA, 2016b), and Site redevelopment plan (Samitaur, 2014) were critical in the development of the scope of work.

The approved SOW (INTERA, 2016a) included the following tasks for Parcel 4:

- Advance four soil borings to obtain good spatial coverage over the parcel without too much focus on proposed redevelopment due to the likelihood that the proposed redevelopment will change.
- Field-screen soil samples for the presence of VOCs using a photoionization detector (PID) to assist in selecting which soil samples will be submitted for laboratory analysis.
- Collect one soil sample from each soil boring location and submit for analysis of the following:

- VOCs via U.S. Environmental Protection Agency (EPA) Method 8260B;
 - Polynuclear Aromatic Hydrocarbons (PAHs) via EPA Method 8310;
 - TPH: gasoline range organics (GRO), -DRO, and -MRO via EPA Method 8015 modified; and,
 - Metals: antimony, arsenic, chromium, iron, lead, manganese, and thallium via EPA Method 6010.
- Collect four soil gas samples from the soil borings and submit for analysis of VOCs via EPA Method TO-17.
 - Oversee an ACBM and LBP survey for the Crane Runway.
 - Gauge and sample the groundwater monitoring well (MW-05) located in Parcel 4 and submit for analysis of VOCs via EPA Method 8260B and 1,2-dibromoethane (EDB) via EPA Method 504.1.

1.3 Work Plan Deviations

There were no work plan deviations during this additional characterization field event and all SOW tasks were completed.

2.0 FIELD ACTIVITIES

Field activities for this additional characterization event were conducted on October 27, 2016. The Site-Specific Health and Safety Plan (SSHASP) was reviewed in detail by INTERA field staff, was followed during all Site activities, and was used as a guide for the field-work health and safety meeting. Work was performed in Occupational Safety and Health Administration (OSHA) Level D personal protective equipment (PPE). Copies of the field notes and field forms are included in **Appendix A**.

2.1 Soil Sampling

On October 27, 2016, four soil borings (SB-6, SB-7, SB-8, and SB-9) were drilled using a truck-mounted Geoprobe® drilling rig operated by Vista GeoScience, LLC (Vista) of Golden, Colorado (**Figure 2b**). These four boring locations were chosen based on the data gaps identified in the CSM and the proposed redevelopment plans provided by the COA. The Geoprobe® utilizes a rotary hammer mounted on a hydraulic ram that, in conjunction with the weight of the vehicle, advances a threaded, hollow-probed steel tube (Post Run Tubing or PRT) into the subsurface. Soil borings were advanced to a depth of 10 feet below ground surface (ft bgs). The soil sampling locations were selected to collect data for the current proposed redevelopment scenario while also providing good spatial coverage across Parcel 4 in the event the proposed redevelopment scenario changes.

Soil cores were collected continuously to the terminal depth of each boring. The soil cores were contained within the acetate liners, which measured 5 ft in length by 1.125 inches in diameter. The Vista drill crew cut the liner lengthwise at two locations approximately 180 degrees apart and provided the sample to INTERA personnel. Immediately after opening the liner, a portion of the soil core was placed in a clean pint-size glass jar for field screening for the presence of VOCs using a PID and the heated headspace method. Another portion of the soil core was placed in a laboratory-provided four-ounce glass jar with a Teflon™-lined lid and stored on ice for potential laboratory analysis. These soil jars were labeled with the borehole number, depth interval, and time at which the sample was collected. Methanol extraction was performed on samples selected for laboratory analysis of VOCs and/or TPH-GRO.

An INTERA field scientist logged the lithology of each soil boring in accordance with *ASTM Standard D 2488-09a Standard Practice for Description and Identification of Soils (Visual Manual Procedure)* (ASTM, 2009). The soil classification, description, and field screening results are on the boring logs provided in **Appendix A**. Field screening results for select soil samples are presented in **Table 1**.

The soil was also visually examined for the presence of staining, and any odors detected were also noted. Evidence of staining and/or odors were noted on the soil boring log. The PID results were then evaluated and assisted in selecting which soil samples were to be submitted for laboratory analysis. Samples are described by soil boring name and a depth interval (ft bgs). The soil samples selected for analyses from Parcel 4 are as follows:

- SB-6 (5-10)
- SB-7 (5-10)
- SB-8 (5-10)
- SB-9 (5-10)

After collection, the soil samples were labeled and immediately placed on ice for transport to Hall Environmental Analysis Laboratory (HEAL) for analyses. Proper chain-of-custody procedures were adhered to during sample collection, transport, and delivery to HEAL. Laboratory analytical results are discussed in Section 3 and are summarized in **Table 1** and **Table 2**. A copy of the analytical laboratory report is provided in **Appendix B**.

2.2 Soil Gas Sampling

A soil gas survey was conducted at Parcel 4 on October 27, 2016 by Vista, under INTERA oversight. Four soil gas samples (SV-06, SV-07, SV-08, and SV-09) were collected from the soil borings locations located within Parcel 4. The soil gas sampling locations were selected to collect data for the current proposed redevelopment scenario while also providing good spatial coverage across Parcel 2 in the event the proposed redevelopment scenario changes.

Soil gas samples were collected at each sampling location at an approximate depth of 5 ft bgs using a truck-mounted Geoprobe® drill rig. Soil gas samples were collected through clean, dedicated, Teflon-lined polyethylene tubing attached by an adaptor (expandable anchor point or an open retractable probe tip) to the bottom Geoprobe® rod section. A hollow-stem pipe was inserted into the subsurface, and a sampling “port” was attached to the drive-end of the hollow-stem piping, which was attached to tubing. The tubing was stretched from the subsurface, up through the hollow-stem piping, to hand-held sampling units and/or the collection vessel (sorbent tubes) located at the surface. A vacuum device (metered pump) was used to extract soil gas from the subsurface when the desired depth was reached.

Once the soil gas sampling system was set up, the soil gas was purged from the soil boring using a vacuum pump and flow meter, carbon dioxide and oxygen (CO₂/O₂) readings were monitored,

and purging continued until these readings remained stable for one minute. Once a minimum of three volumes was purged and stabilization was achieved, the soil gas was screened using a hand-held PID, and the concentration was recorded. The soil gas samples were then collected by INTERA by pumping through a sorbent tube for 5 minutes (1-liter sample volume). The soil gas samples were submitted for laboratory analysis of VOCs via EPA Method TO-17 by Vista to Beacon Environmental Services (Beacon). Copies of Vista field forms are provided in **Appendix A** and a copy of the analytical laboratory report is provided in **Appendix C**.

2.3 ACBM and LBP Sampling

DC Environmental, Inc. (DCE) of Albuquerque, New Mexico, an INTERA subcontractor, performed an asbestos and LBP survey at the Site on October 27, 2016. The asbestos/LBP survey was conducted to determine the presence, location, and quantity of asbestos remaining within the Crane Runway and to establish the basis for the presence of lead-containing finishes within the Site structure. The Crane Runway runs east to west at the south side of the Machine Shop. The steel structure supports a 15-ton elevated crane and sits on a concrete foundation that was patched with a plaster infill material. The majority of the structure is silver painted steel, and a black tar coating was also present and suspect for asbestos (DCE, 2016).

DCE conducted a visual inspection for asbestos-containing building materials within the structure and collected bulk asbestos samples that were tested for asbestos using Polarized Light Microscopy and stereomicroscopy bulk asbestos analysis. Analysis was conducted by Crisp Analytical, LLC (Crisp) of Carrollton, Texas. Crisp is an accredited laboratory and recognized by the National Voluntary Laboratory Accreditation Program (DCE, 2016).

The presence of lead based paint was assessed in substantial compliance with the Housing and Urban Development guidelines. DCE conducted the surface coating screening survey of the interior and exterior of the property to generally identify building components coated with a surface coating that contains lead. The survey consisted of testing the lead concentrations of each of the accessible surfaces using a Radiation Monitoring Device (RMD) LPA-1 X-Ray Fluorescence (XRF) device. The determination of lead in paint is defined as a surface content of at least 1.0 milligrams per square centimeter. If the readings were between the 0.9 to 1.0 mg/cm² range, then the readings are declared as either lead-based paint or lead-containing materials and sampling is recommended. Surfaces that were tested with the XRF device included, but were not limited to the following: doors, ceiling, painted walls, structural steel support, painted door components, roof components, ventilation duct, gates, and framing. In addition, bulk samples of paint chips were collected to verify the XRF readings. Lead-based paint is further defined if laboratory analysis determines the lead content to be one-half percent (0.5 %) by weight or greater when analyzed by Flame Atomic Absorption (DCE, 2016).

2.4 Groundwater Sampling

On November 4, 2016, a groundwater sample was collected from the groundwater monitoring well located in Parcel 4: MW-5. The monitoring well was purged using a dedicated, disposable polyethylene bailer.

A groundwater sample was collected once three well casing volumes were removed from the monitoring well and water quality parameters stabilized for three consecutive readings. The groundwater sample was labeled and immediately placed on ice for transport to HEAL for analysis of VOCs via EPA Method 8260B and EDB via EPA Method 504.1. Proper chain-of-custody procedures were adhered to during sample collection, transport, and delivery to HEAL.

More details, including field forms and water quality data, can be found in the site-wide groundwater monitoring report developed by INTERA (INTERA, 2017).

3.0 RESULTS AND DISCUSSION

The soil, soil gas, groundwater results of the 2016 additional characterization field activities conducted with Parcel 4 are summarized in the following subsections. These new data have been complied with historic data previously summarized in the Site CSM (INTERA, 2015) to provide an overall assessment of the nature and extent of the contamination for Parcel 4. For each media (soil, soil gas, and groundwater) investigated, a CSM Update section has been included to facilitate evaluation of all Site data with regards to impacts to future redevelopment. Unless otherwise stated, all data results are discussed for a residential scenario. For soil, the state regulation defines accessible soil for a residential scenario to be located from 0 to 10 ft bgs, (NMED, 2015).

Select soil and soil gas samples had elevated laboratory reporting detection limits (RLs) for select constituents due to interference from elevated concentrations of other compounds. For these samples, INTERA requested that the laboratories (HEAL and Beacon) report using the method detection limit (MDL) and flag the results as estimated (J qualifier). Reporting down to the MDL resulted in all laboratory RLs being lower than the residential/construction worker soil screening levels (SSLs) and NMED vapor intrusion screening levels (VISLs) with the exception of EDB in soil vapor/soil gas. The RL for EDB will be discussed further in Section 3.2.

NMED does not have an established VISLs for several constituents including: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,3-dichlorobenzene, 1,4-dioxane, and 2-methylnaphthalene. INTERA was, however, able to calculate the VISLs for 1,2,4-trimethylbenzene and 1,4-dioxane using the EPA VISLs Calculator. The methodology behind the calculations is explained in more detail in **Appendix D**.

The spatial trends are discussed below for all COPCs listed in Section 1.1. Figures were developed to illustrate the spatial trend of SSL exceedances for COPCs over the investigation time period, between 1995 and 2016. Red-colored locations illustrate sampling locations where the selected COPC has been detected at a concentration that exceeds the corresponding SSL. The green-colored locations illustrate sampling locations where the selected COPC has been detected at a concentration below the corresponding SSL. The orange-colored locations illustrate sampling locations where the selected COPC has not been detected. The black-colored locations illustrate sampling locations where the selected COPC has not been detected, but the laboratory detection limit is greater than the SSL; therefore, exceedances are unable to be determined at these locations. For all non-detect locations, the minimum detection limit over the monitoring time period was used for comparison. One sampling location may have several different “types”

of detections; for conservative purposes, only the SSL exceedance is shown. Furthermore, the shape of these points represents the sampling location type: squares represent soil borings, diamonds represent surface soil samples, and squares with a cross represent test pits. Figures illustrating soil, soil gas, and groundwater results for the entire Site (Parcels 1 through 10) are included in **Appendix E**. The results discussed below are specific to Parcel 4.

3.1 Soil Analytical Results

3.1.1 Metals

Arsenic was detected in two soil samples above the laboratory RL and/or MDL; however, the concentration did not exceed the residential SSL of 4.25 milligrams per kilogram (mg/kg). Chromium, iron, lead, and manganese were detected in all four soil samples above their laboratory RLs; however, the concentrations did not exceed their residential SSLs of 96.6 mg/kg, 54,800 mg/kg, 400 mg/kg, and 10,500 mg/kg, respectively. Antimony and Thallium were not detected above the laboratory RL or MDL in any of the soil samples collected within Parcel 4. The laboratory was unable to report below the residential SSL for thallium for the soil sample collected at SB-6 (5-10 ft bgs). The laboratory analyzed the sample twice at a 1.0 dilution factor; however, both times the internal standard failed, so the laboratory could not report at this level. The final result is reported with a 2.0 dilution factor (Freeman, 2016). A summary of the detected laboratory analytical results is provided in **Table 2** and illustrated on **Figures 3a** through **3g**. A copy of the laboratory analytical report is provided in **Appendix B**.

3.1.2 Petroleum Hydrocarbons

Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were only detected in the soil sample collected at SB-7 (5-10 ft bgs) above their laboratory RLs; however, the concentrations did not exceed the residential SSLs of 1.53 mg/kg, 0.153 mg/kg, 1.53 mg/kg, and 1.53 mg/kg, respectively. Dibenzo(a,h)anthracene and naphthalene were not detected above the laboratory RLs in any of the soil samples collected within Parcel 4.

TPH DRO + MRO was detected above the laboratory RL in the soil sample collected at SB-7 (540 mg/kg); however, the concentration did not exceed the residential SSL of 1,000 mg/kg. TPH GRO was not detected above the laboratory RL in any of the soil samples collected within Parcel 4. A summary of the detected laboratory analytical results is provided in **Table 1** and illustrated on **Figures 4a** through **4e** and **Figure 5**. A copy of the laboratory analytical report is provided in **Appendix B**.

3.1.3 Conceptual Site Model Update

The CSM identified data gaps along the eastern property boundary in the southern portion of the Site, specifically where Parcel 4 is located. Therefore, INTERA designed the 2016 additional

characterization sampling plan to collect soil samples specifically in these areas where data were identified as missing in the initial CSM.

Figures 3a through 3g illustrate there are no longer any data gaps for Site metal COPCs and the cumulative data is distributed well throughout Parcel 4. No metals in excess of residential SSLs were detected in any historic soil samples or any of the soil samples collected during the 2016 additional characterization event. The one location where the laboratory RL for thallium is above the residential SSL is illustrated on **Figure 3g**.

Figures 4a through 4e illustrate there are no longer any data gaps for petroleum hydrocarbons in Parcel 4 soil and the cumulative data is distributed well throughout Parcel 4. No petroleum hydrocarbons in excess of residential SSLs were detected in any of the soil samples collected during the 2016 additional characterization event. However, historical data indicates soil is impacted with petroleum hydrocarbons, primarily in the eastern portion of Parcel 4, east of the Power House. Benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene, were detected in the eastern side of Parcel 4 at concentrations that exceed their residential SSLs (**Figures 4b, 4c, and 4d**).

Figure 5 illustrates there are no longer any data gaps for TPH and the cumulative data is distributed well throughout Parcel 4. This figure shows that one soil sample location had a TPH concentration exceeding the residential SSL located east of the Power House within Parcel 4.

3.2 Soil Gas Sampling Results

No soil gas constituents were detected in any of the soil gas samples collected within Parcel 4. A summary of the laboratory analytical results is provided in **Table 3**. Isopleth maps illustrating the distribution of select contaminants are provided in **Appendix C**. A copy of the laboratory analytical report is included in **Appendix C**. It should be noted that the laboratory RL for EDB (10 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]) was greater than the NMED VISL of 0.468 $\mu\text{g}/\text{m}^3$ and EPA VISL of 1.6 $\mu\text{g}/\text{m}^3$ for EDB. EDB was not identified in any of the soil gas samples above the laboratory reporting limit.

3.2.1 Conceptual Site Model Update

The CSM identified that there was inadequate coverage with regard to soil gas data within Parcel 4. To fill this data gap, INTERA collected four soil gas samples within Parcel 4. No soil gas constituents were detected in any of the soil gas samples collected within Parcel 4.

3.3 ACBM and LBP Sampling Results

3.3.1 ACBM Sampling Results

DCE collected six asbestos samples from the Crane Runway. Asbestos was not identified on the Crane Runway. A copy of the asbestos survey reports, which includes the asbestos laboratory results, is provided in **Appendix F**.

3.3.2 Lead Based Paint Results

LBP was identified on the Crane Runway. The lead based paint surfaces detected on the *Crane Runway* included:

- silver paint on a metal column and bracing, and,
- yellow paint on metal pipe.

A copy of the LBP survey report is provided in **Appendix F**.

3.3.3 Conceptual Site Model Update

The CSM recommended that a Site inspection of all the building materials at the Site needed be conducted to determine if the asbestos and LBP sampling historically conducted at the Site was comprehensive. DCE reviewed the historical asbestos and LBP sampling locations and resulting data and designed their sample collection to target locations and/or buildings that had not previously been surveyed and/or confirm locations already sampled.

No evidence of previous asbestos inspections performed at the Crane Runway were found (INTERA, 2015). To fill in these data gaps, DCE collected six asbestos bulk samples in the Crane Runway; no asbestos was found in the Crane Runway. Details pertaining to the location of the asbestos samples within the Crane Runway is discussed in detail in the DCE Survey Report provided in **Appendix F**.

There are no data indicating LBP samples were historically collected at the Crane Runway (INTERA, 2015). DCE screened 10 paint samples at the Crane Runway using the XRF device. The 2016 results indicate that LBP was detected. Details pertaining to the locations of the LBP is discussed in detail in Section 3.3.2 and in the DCE Survey Report provided in **Appendix F**.

3.4 Groundwater Analytical Results

One monitoring well (MW-05) is located within Parcel 4. The analytical results for MW-05 indicate that VOCs were not detected above their laboratory RLs. Additionally, EDB was not detected above the laboratory RL of 0.010 micrograms per liter ($\mu\text{g}/\text{L}$). More details, including field forms and water quality data, can be found in the site-wide groundwater monitoring report developed by INTERA (INTERA, 2017). A copy of the laboratory analytical report is included in **Appendix G**.

3.4.1 Conceptual Model Update

The CSM noted that the presence (or absence) of EDB in groundwater has not been determined. To address this data gap, INTERA collected groundwater samples from the Site wells and submitted them for analysis of VOCs via EPA Method 8260B and EDB via EPA Method 504.1. The laboratory RL for EDB via EPA Method 504.1 ($0.010 \mu\text{g}/\text{L}$) is below the NMWQCC Standard of $0.10 \mu\text{g}/\text{L}$; therefore, the presence or absence of EDB, at a concentration above the EDB NMWQCC Standard, if present, could be determined.

Site groundwater wells have been sampled intermittently since 1996, and **Table 4** presents the historical data for benzene, toluene, ethylbenzene, and total xylenes (BTEX), EDB, and total naphthalenes at monitoring well MW-05. VOCs and EDB have never been detected above laboratory RLs at monitoring well MW-05. The groundwater sampling results from the Site-wide November 2016 groundwater monitoring event are provided in a separate groundwater monitoring report (INTERA, 2017).

INTERA is scheduled to conduct another site-wide annual groundwater monitoring event in November 2017.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the field investigation, INTERA has compiled the following conclusions and recommendations.

4.1 Conclusions

- The laboratory RL for thallium for one soil sample exceeded the thallium residential SSL (**Figure 3g**).
- Several soil samples were identified to contain benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene at concentrations that exceed their respective residential SSLs. These soil samples were collected from locations east of the Power House within Parcel 4 (**Figure 4b, 4c, and 4d**).
- One soil sample location was identified to contain a TPH DRO+MRO concentration that exceed the residential SSL located east of the Power House within Parcel 4 (**Figure 5**).
- No soil gas constituents were detected in any of the soil gas samples collected within Parcel 4.
- The laboratory RL for EDB in soil gas exceeded the corresponding NMED VISL (**Table 3**).
- Asbestos was not detected in the Crane Runway.
- LBP was detected in the Crane Runway.

4.2 Recommendations

Based on the synthesis of all data collected within Parcel 4, including the results of the recent additional characterization field event for Parcel 4, INTERA makes the following recommendations:

- Soil Gas Engineering Controls: There were no soil gas concentrations that exceeded NMED established VISLs. Even though the laboratory RL for EDB in soil gas exceeded the corresponding NMED VISL, EDB is not considered a contaminant of concern at the Site because it has not been identified above RL in either Site soil or ground water and was not associated with historical Site uses. Based on the current proposed redevelopment plan for this parcel, additional soil vapor sampling appears unwarranted. Should the redevelopment plan change or any new structure be constructed at the parcel, the potential for soil vapor intrusion should be evaluated. As a precaution, a vapor

intrusion membrane should be installed for any new buildings. INTERA recommends documenting any engineering controls implemented via institutional controls.

- **Contaminated Soil (metal and PCS)**: Soil contamination is present within the eastern half of Parcel 4, immediately east of the Power House, from the ground surface to 10 ft bgs.
 - **Removal**: If soil is excavated during Site construction, the soil should be field-screened if applicable, segregated, characterized, and either reused on-Site or disposed of properly. The extent to which encountered contaminated soil may have to be removed shall be dependent on the final chosen land use scenario (e.g., residential/commercial or industrial) and proposed land cover (e.g., asphalt or concrete).
 - **Engineering Controls**: If contaminated soil is left in place, engineering controls must be implemented to minimize or remove the potential exposure to residual contamination. Engineering controls provide a physical barrier to the contamination and can include soil capping with clean fill, or if contaminant mobility via leaching is of concern, soil capping with an impermeable surface (e.g., asphalt, concrete). INTERA recommends capping the eastern half of Parcel 4 with an impermeable surface to prevent exposure to residual contamination and reduce contaminant mobility via leaching.
 - **Institutional Controls**: If engineering controls are implemented than institutional controls (administrative or legal controls) are typically necessary to provide information regarding residual contamination left in place, document engineering controls implemented, and record any land use restrictions. In the event that residual contamination is left in place and engineering controls are implemented, INTERA recommends documenting these using institutional controls.
- **Immobilization/Containment of LBP Materials**: The materials containing LBP will require abatement or encapsulation before substantial renovation or demolition, if proposed, can commence. The final building renovation design should be considered and a decision will have to be made as to their final deposition. Any remaining LBP left on the Crane Runway will need to be documented, and a management plan will need to be developed stating how these materials should be handled following renovation activities.

5.0 REFERENCES

- ASTM International (ASTM), 2013. *ASTM Standard D 2488-09a Standard Practice for Description and Identification of Soils (Visual Manual Procedure)*. West Conshohocken, PA.
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- _____, 2015. *Conceptual Site Model City of Albuquerque Rail Yards, Albuquerque, New Mexico*. Prepared for the City of Albuquerque. September 25.
- New Mexico Environment Department (NMED). 2015. *Risk Assessment Guidance for Site Investigations and Remediation. Volume 1*. July.
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FIGURES

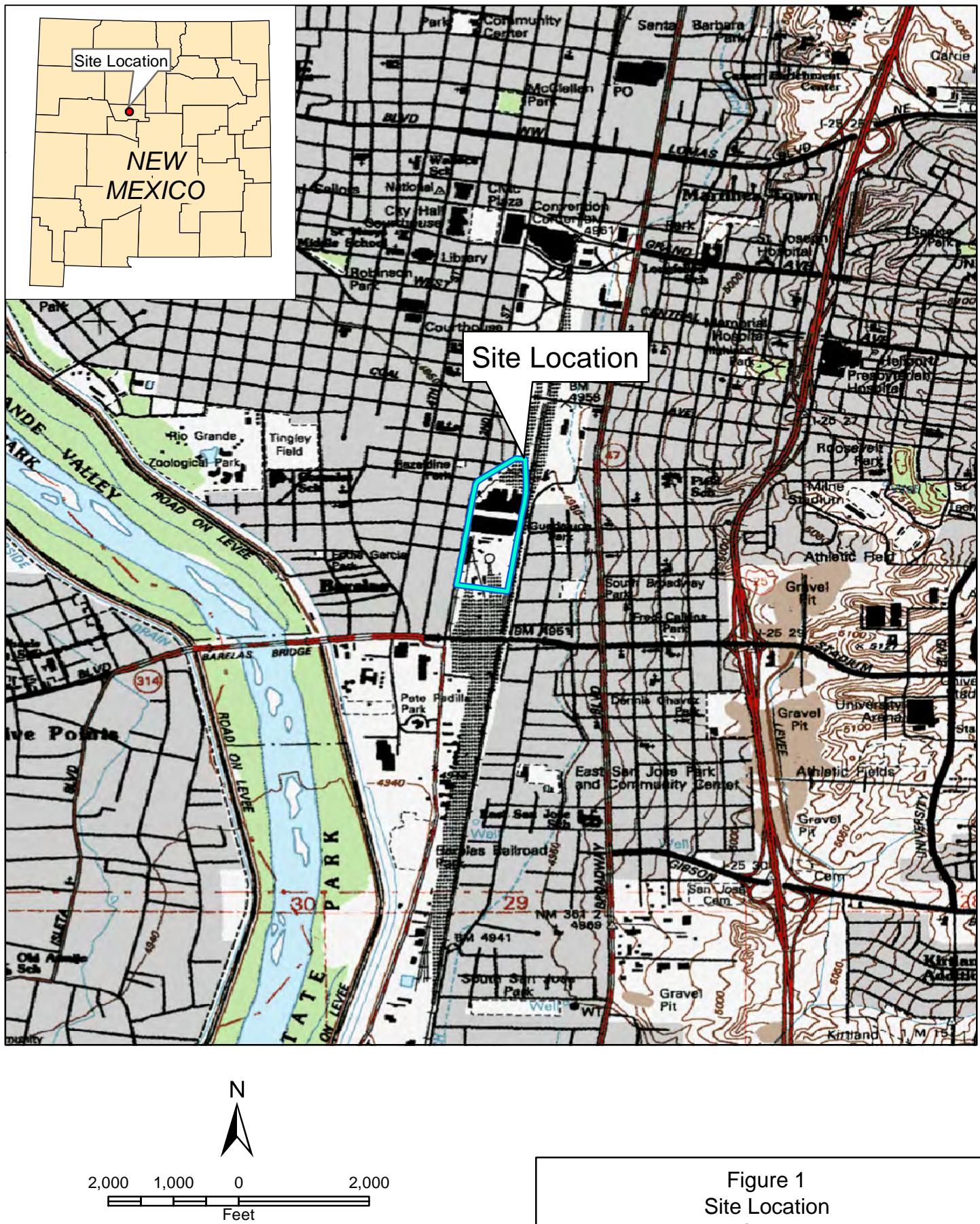
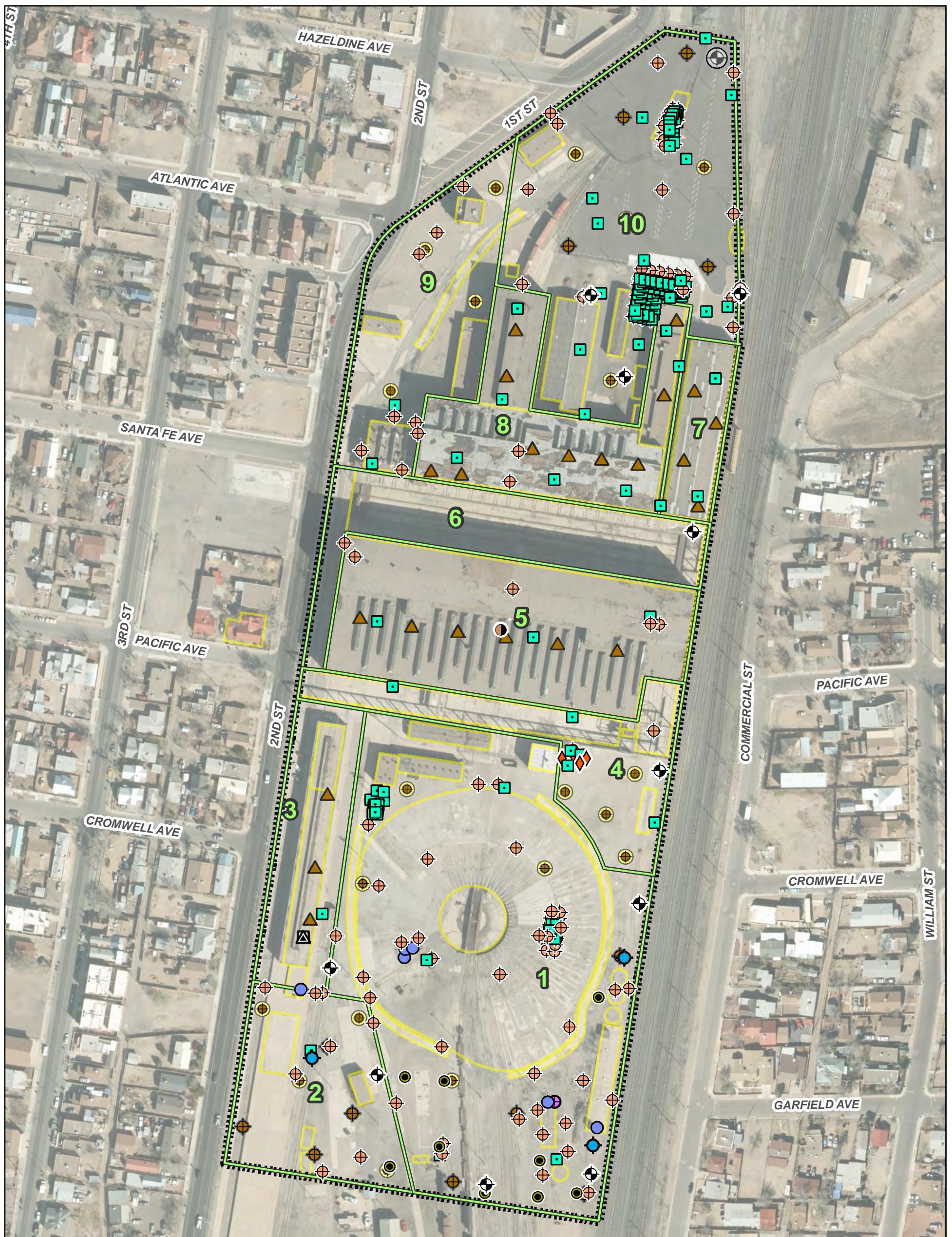


Figure 1
Site Location
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico



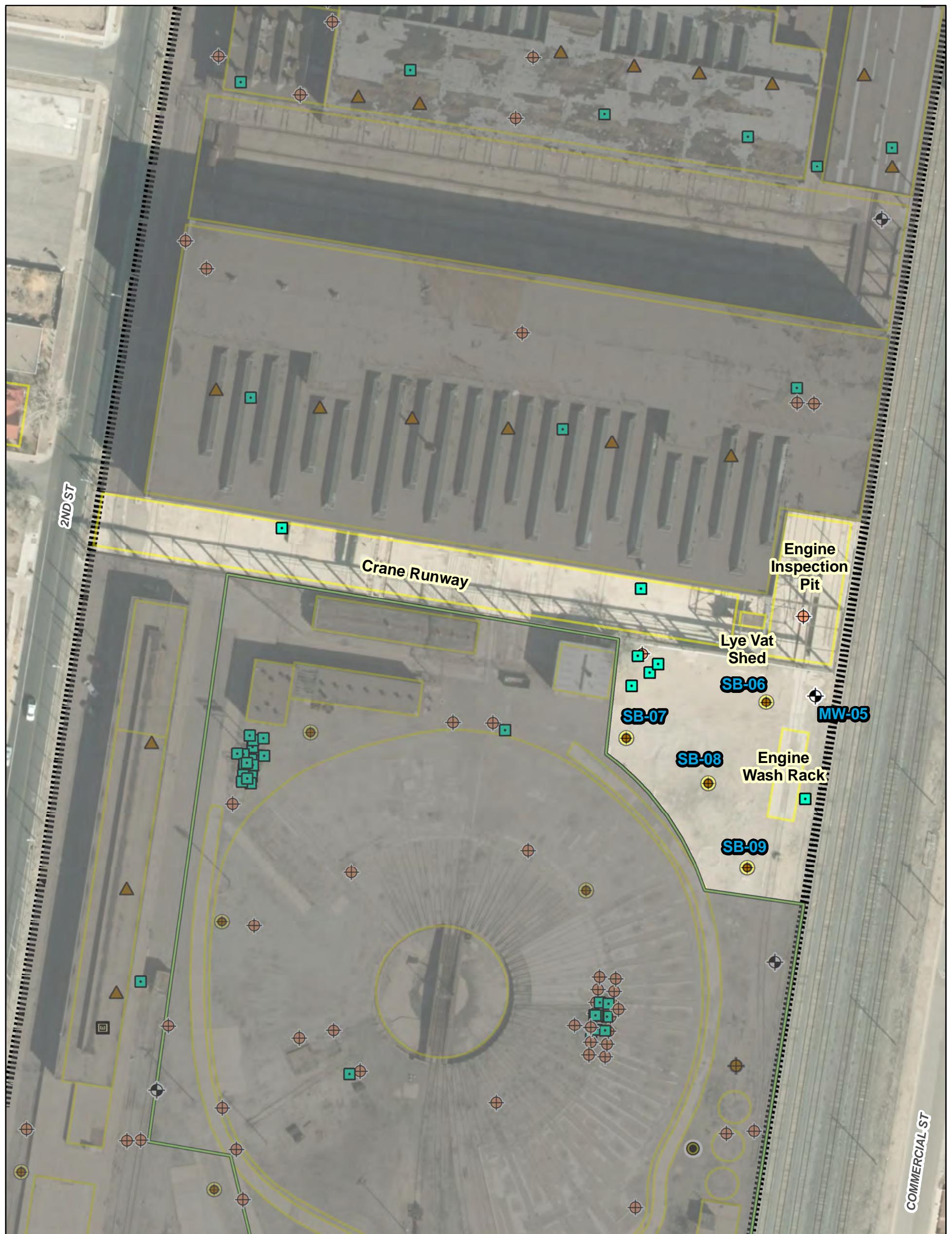
Legend

- ▲ Subslab Soil Vapor Sample (2016)
- Soil Boring Sample (2016)
- Soil Boring/Soil Gas Sample (2016)
- Monitoring Well
- Soil Boring Sample
- Surface Soil Sample
- △ Soil Vapor Monitoring Location
- Excavation Soil Sample
- ◆ Field Screening Only
- Subslab Soil Sample
- Sump
- Test Pit Sample
- Water Supply Well
- Wood Floor Sample
- Monitoring Well; not located
- Site Feature
- Parcel Boundary and ID
- Property Boundary



160 80 0 160
Feet

Figure 2a
Site Plan, Parcels
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico



Legend

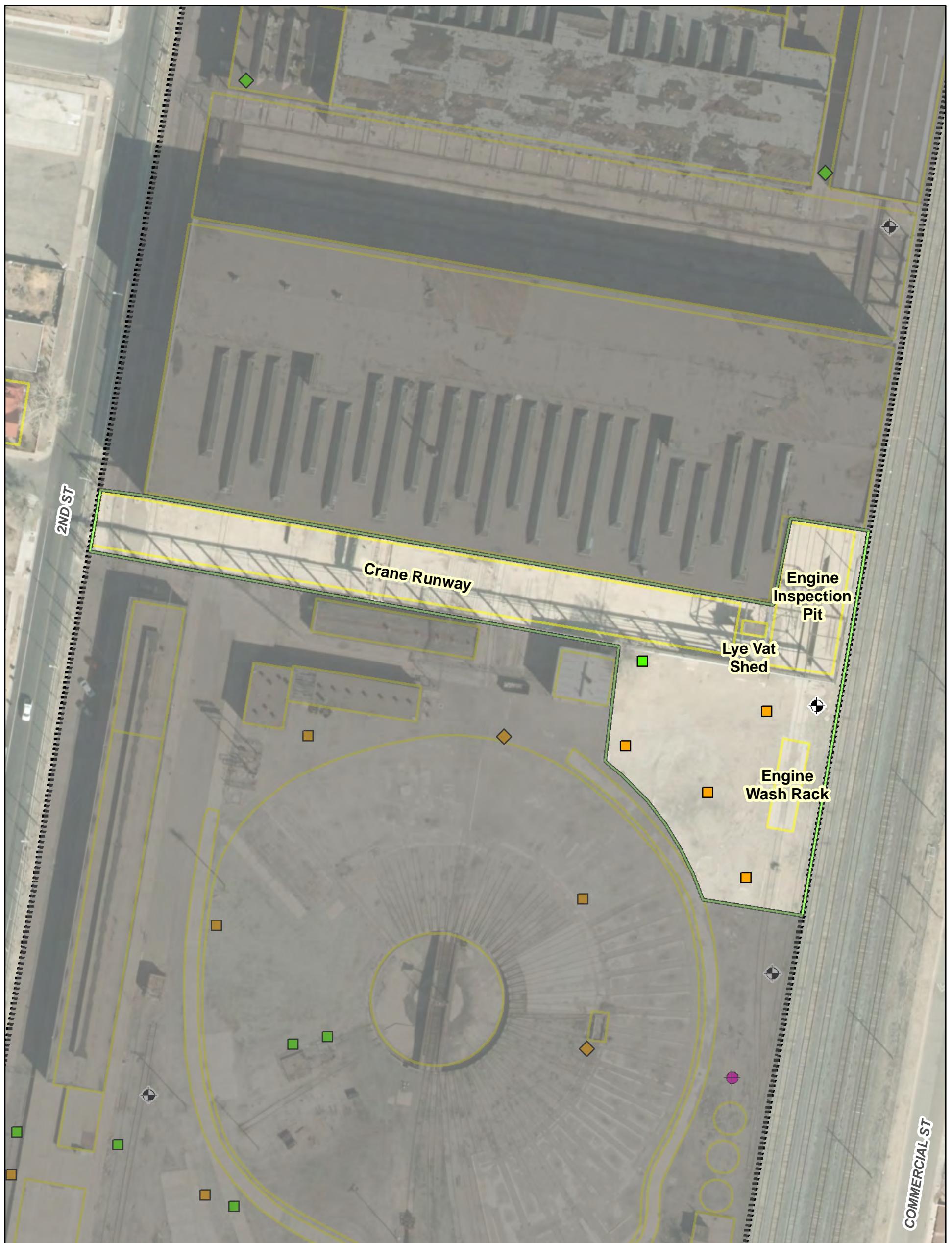
- ▲ Subslab Soil Vapor Sample (2016)
- Soil Boring Sample (2016)
- Soil Boring/Soil Gas Sample (2016)
- ◆ Soil Boring Sample
- Surface Soil Sample
- Subslab Soil Sample
- Test Pit Sample

■ Parcel 4 Boundary
||||| Property Boundary



80 40 0 80
Feet

Figure 2b
Parcel 4 Soil and Soil Vapor Locations
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico



Detect below SSL

- Soil Boring
- ◆ Surface Soil

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab

Legend

● 2016 Soil Boring - Soil Sample
>10 ft bgs

● Monitoring Well

■ Parcel 4 Boundary

■ Property Boundary

Note: Some sample depths include a portion greater than
10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)

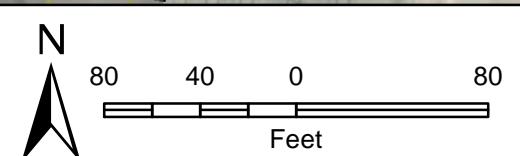
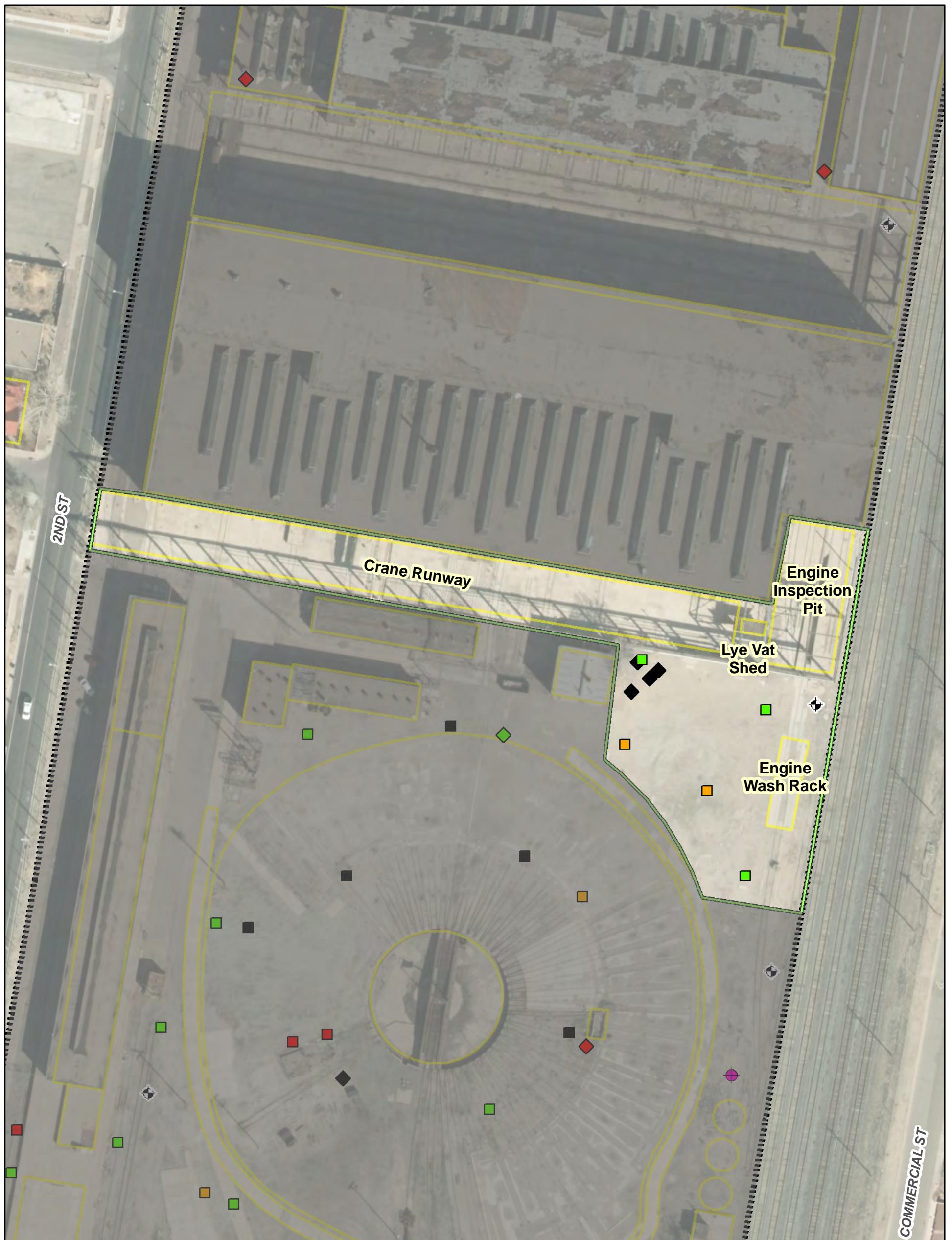


Figure 3a
Residential SSL Exceedances
(0-10 ft bgs), Antimony
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico



Legend

SSL Exceedance	Non-Detect
Soil Boring	Soil Boring
Surface Soil	
	Soil Boring
	Surface Soil
Non-Detect; Detection Limit exceeds SSL	
Detect below SSL	
Soil Boring	
Surface Soil	

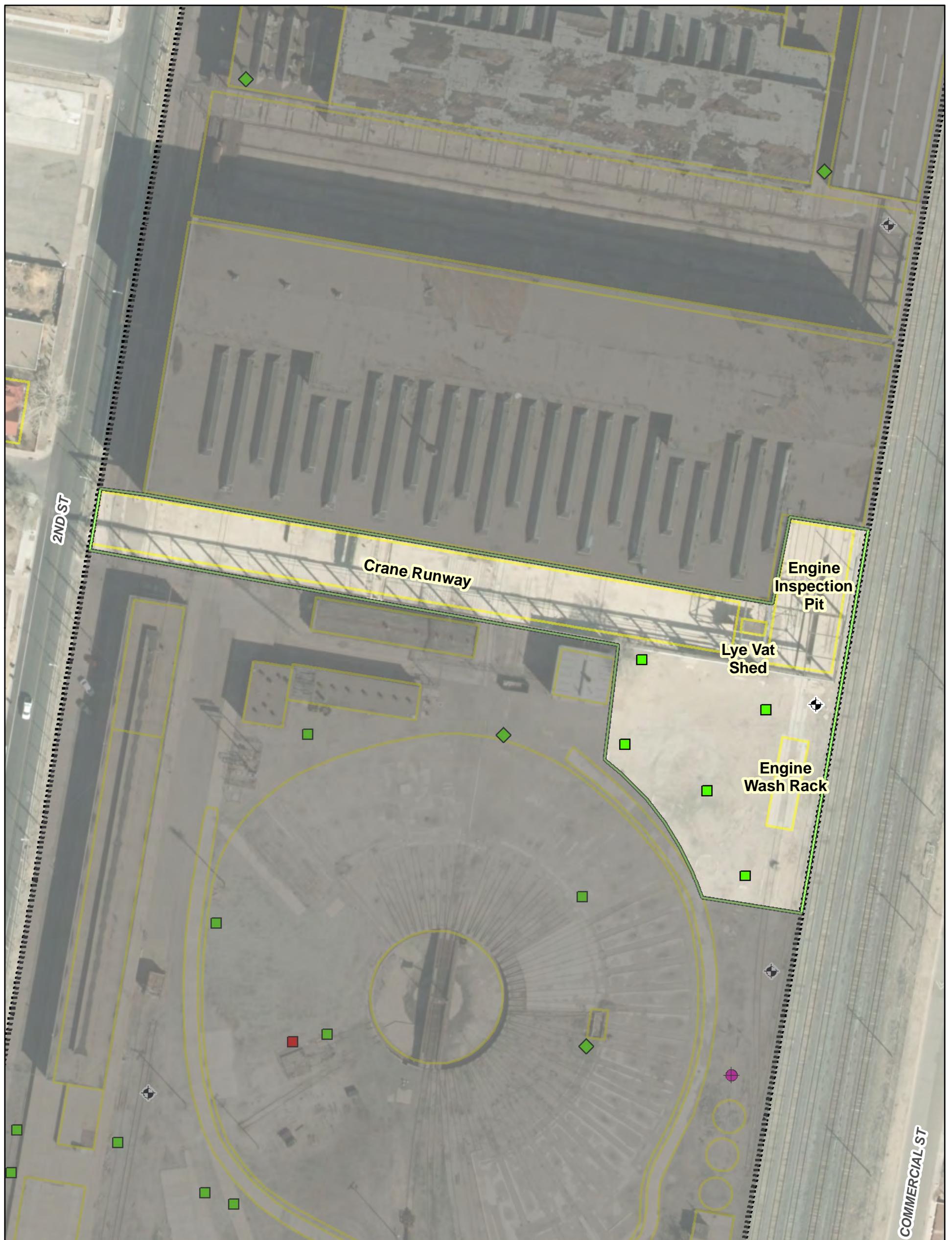
- 2016 Soil Boring - Soil Sample >10 ft bgs
- Monitoring Well
- Parcel 4 Boundary
- Property Boundary

Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



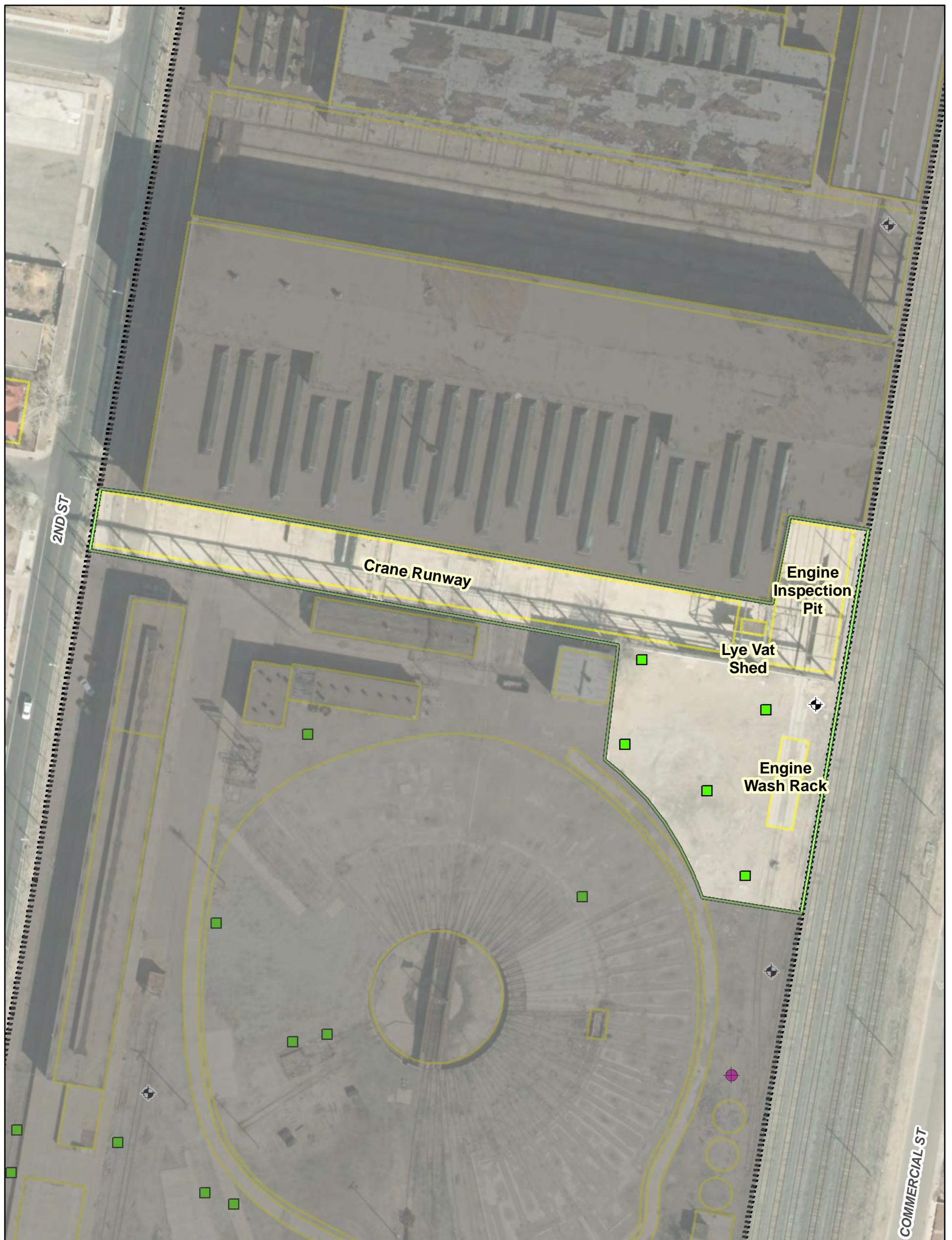
80 40 0 80
Feet

Figure 3b
Residential SSL Exceedances
(0-10 ft bgs), Arsenic
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico



Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)

Figure 3c
Residential SSL Exceedances
(0-10 ft bgs), Chromium
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico



Detect below SSL
Soil Boring

2016 Soil Boring - Soil Sample >10 ft bgs
Monitoring Well

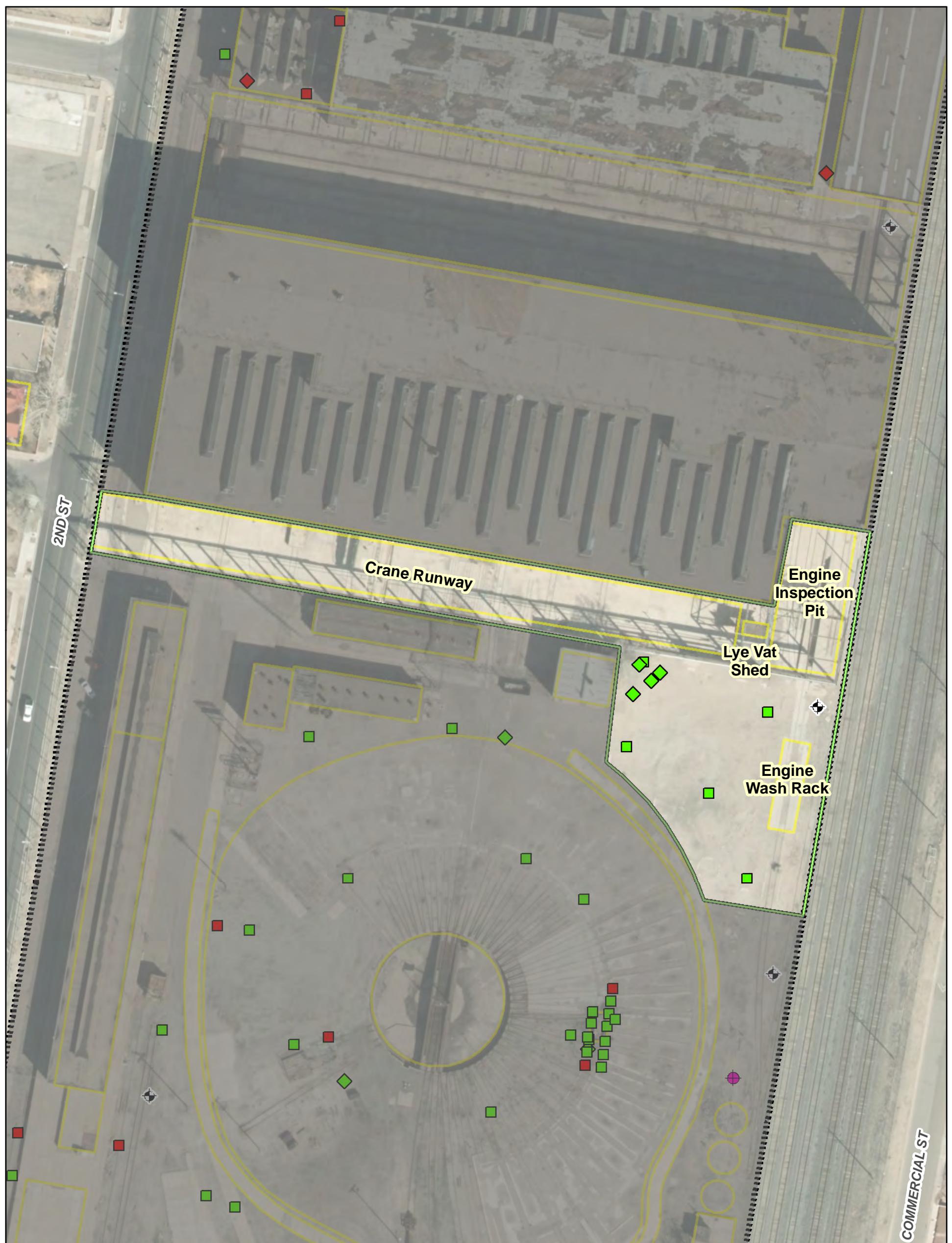
Parcel 4 Boundary
Property Boundary



80 40 0 80
Feet

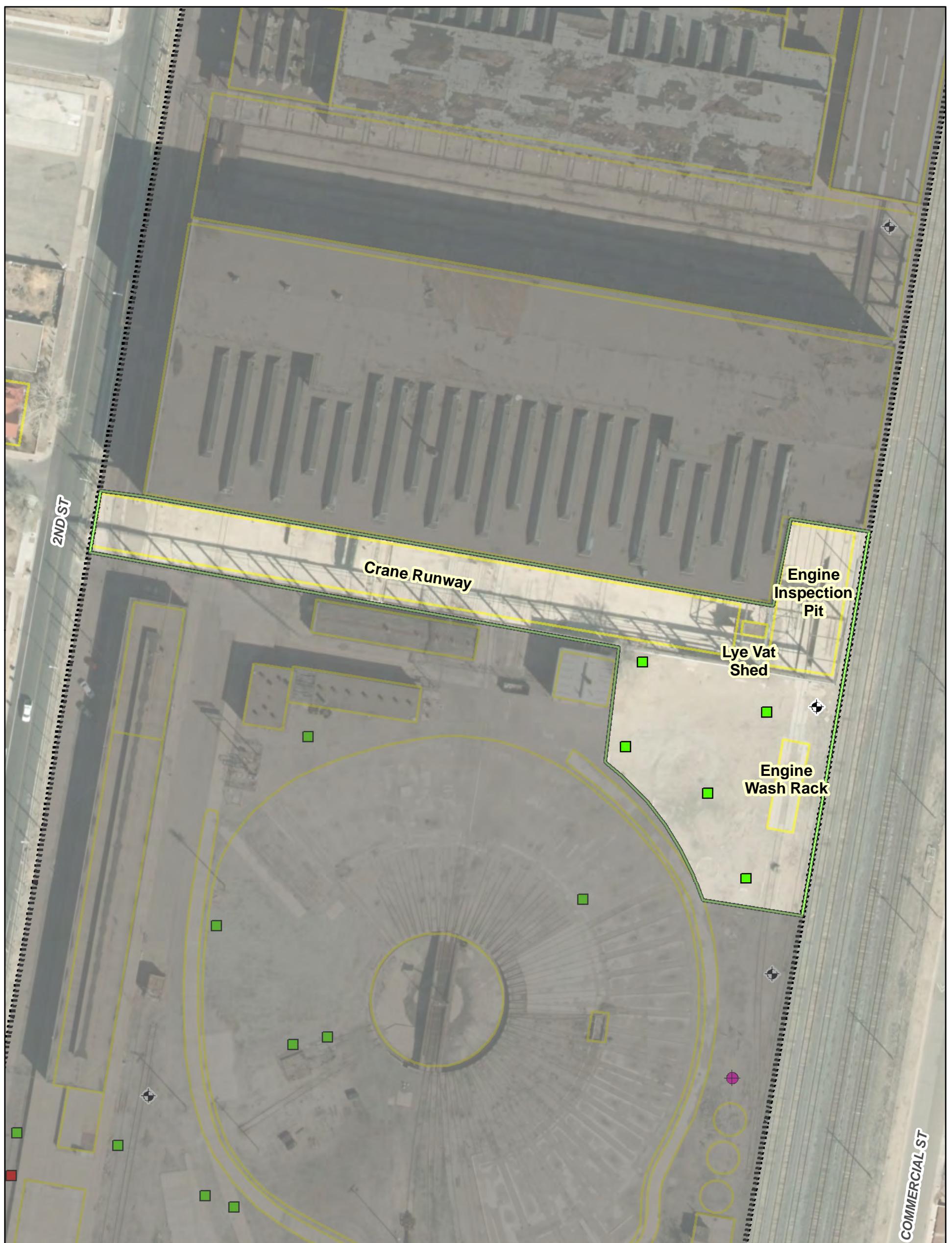
Figure 3d
Residential SSL Exceedances
(0-10 ft bgs), Iron
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)

Figure 3e
Residential SSL Exceedances
(0-10 ft bgs), Lead
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico



SSL Exceedance

Soil Boring

Detect below SSL

Soil Boring

2016 Soil Boring - Soil Sample >10 ft bgs

Monitoring Well

Parcel 4 Boundary

Property Boundary



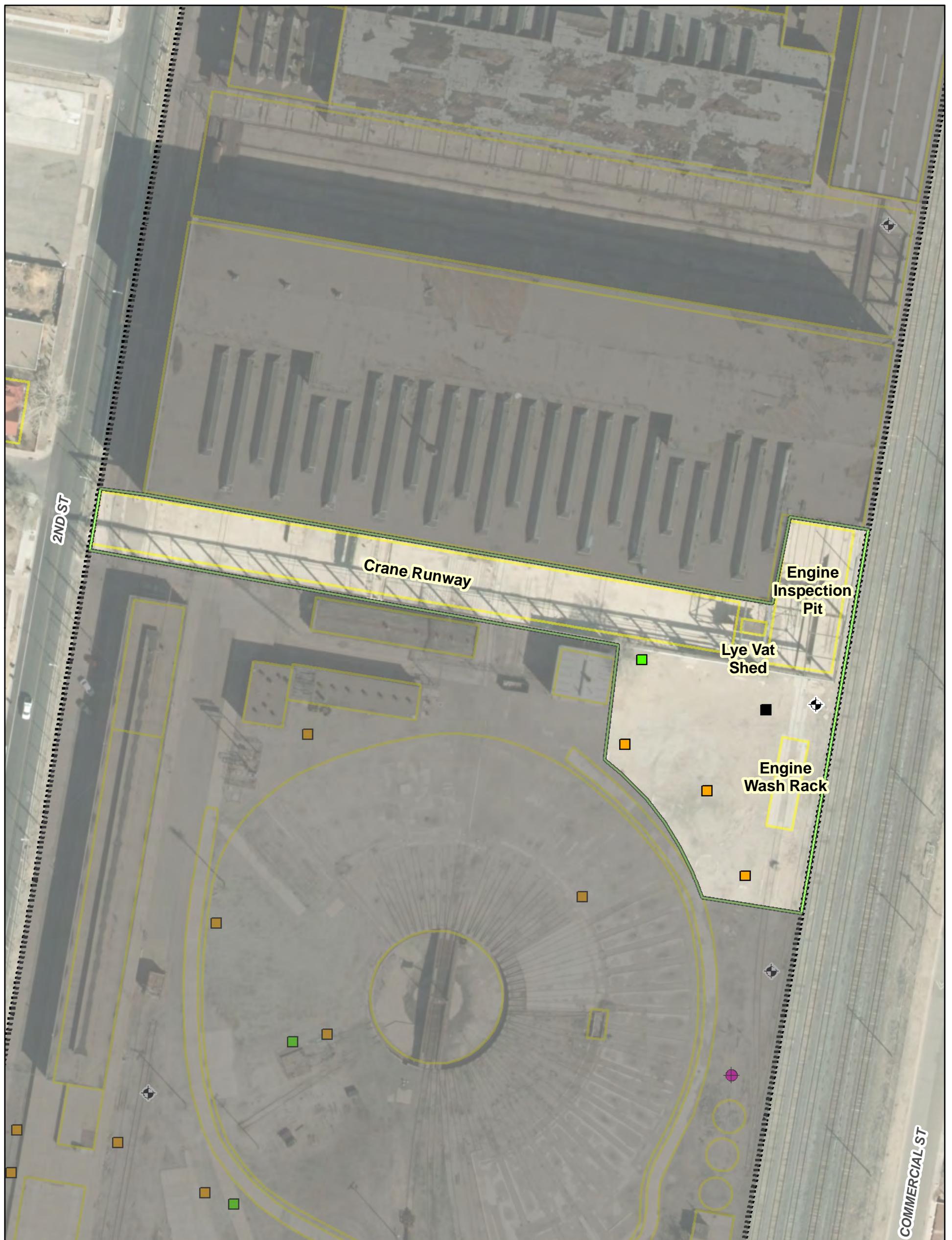
N

80 40 0 80

Feet

Figure 3f
Construction Worker SSL Exceedances
(0-10 ft bgs), Manganese
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

Detect below SSL

■ Soil Boring

Non-Detect

■ Soil Boring

Non-Detect; Detection Limit exceeds SSL

■ Soil Boring

● 2016 Soil Boring - Soil Sample
>10 ft bgs

● Monitoring Well

■ Parcel 4 Boundary

■ Property Boundary

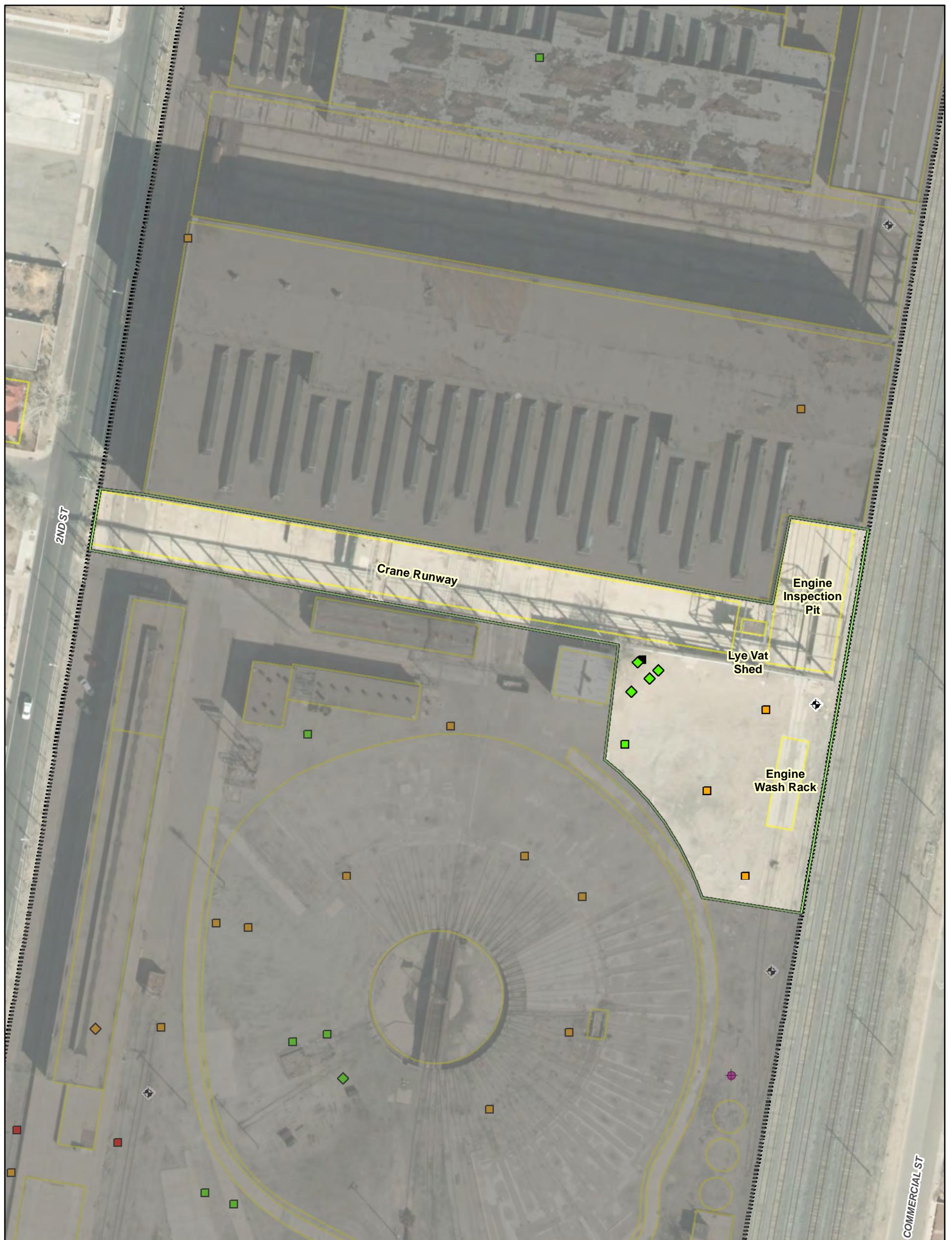


50 25 0 50

Feet

Figure 3g
Residential SSL Exceedances
(0-10 ft bgs), Thallium
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

Note: Some sample depths include a portion greater than
10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

SSL Exceedance

- Soil Boring

Detect below SSL

- Soil Boring
- ◆ Surface Soil

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab

Non-Detect; Detection Limit exceeds SSL

- Soil Boring

● 2016 Soil Boring - Soil Sample >10 ft bgs

● Monitoring Well

■ Parcel 4 Boundary

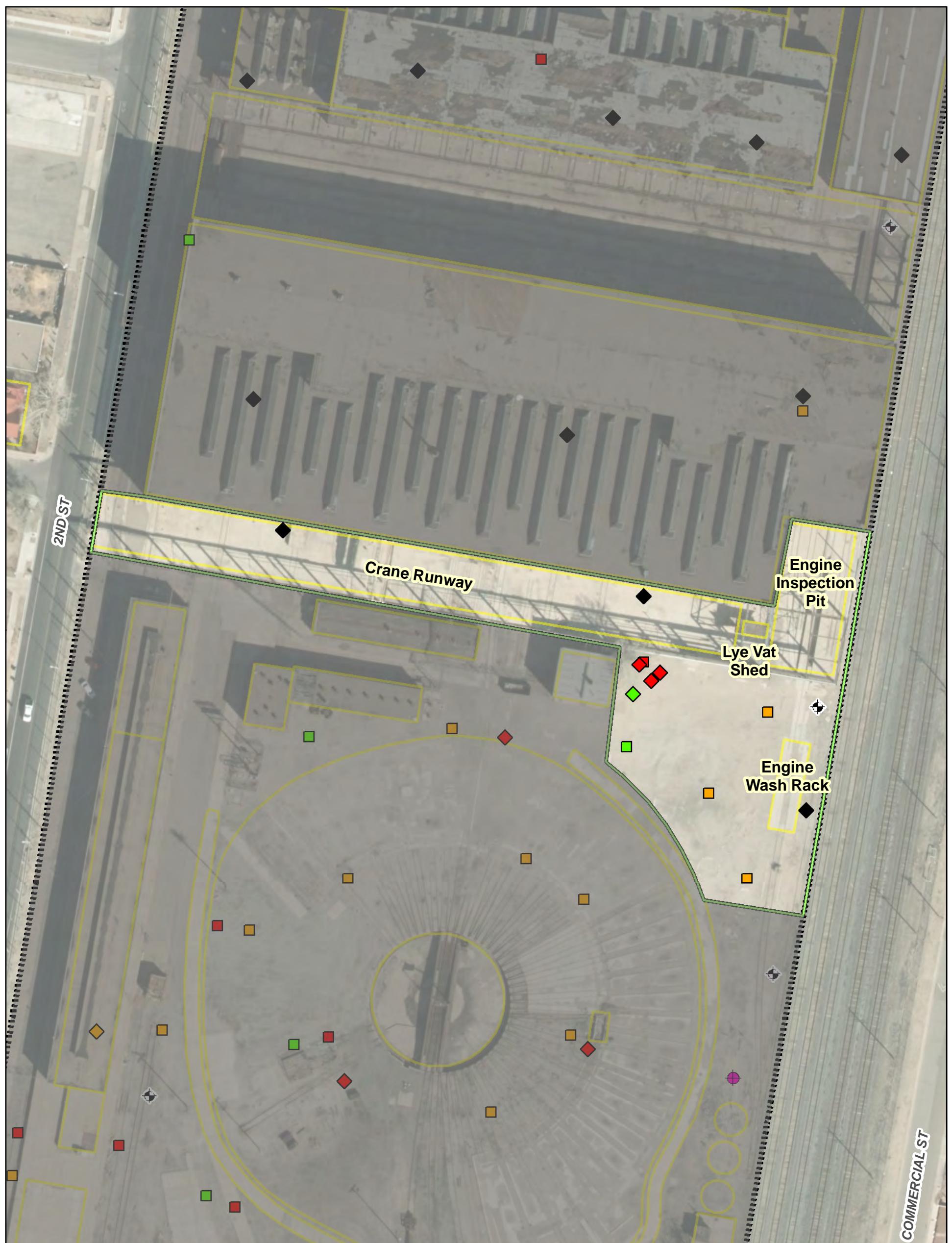
■ Property Boundary



80 40 0 80
Feet

Figure 4a
Residential SSL Exceedances
(0-10 ft bgs), Benzo(a)anthracene
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

SSL Exceedance

- Soil Boring
- ◆ Surface Soil

Detect below SSL

- Soil Boring
- ◆ Surface Soil

Non-Detect

- Soil Boring
- ◇ Surface Soil; Subslab

Non-Detect; Detection Limit exceeds SSL

- ◆ Surface Soil

● 2016 Soil Boring - Soil Sample >10 ft bgs

● Monitoring Well

■ Parcel 4 Boundary

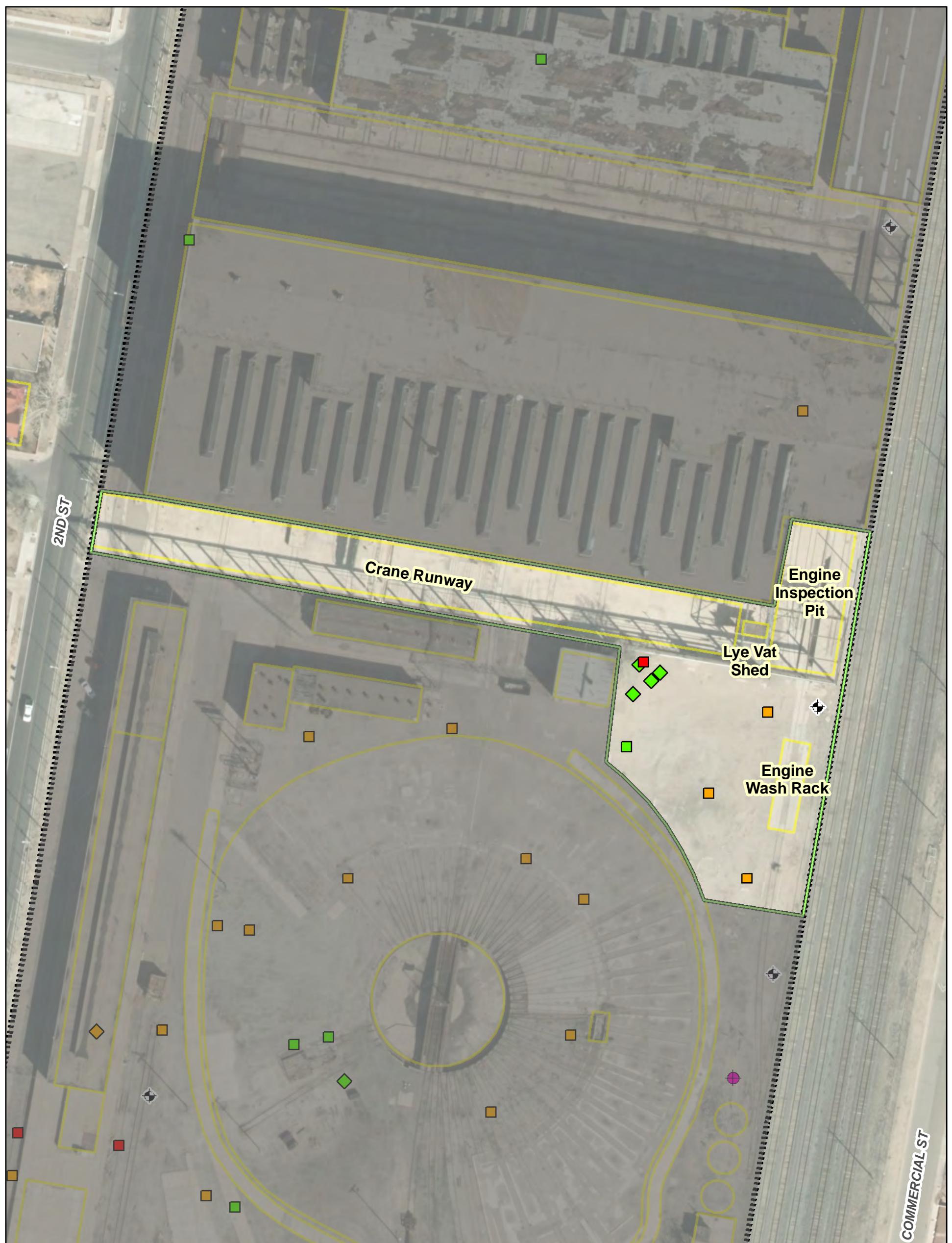
■ Property Boundary



80 40 0 80
Feet

Figure 4b
Residential SSL Exceedances
(0-10 ft bgs), Benzo(a)pyrene
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

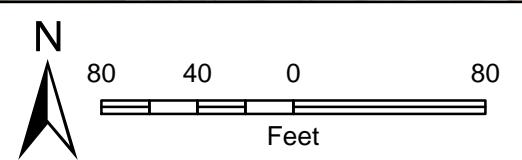
Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

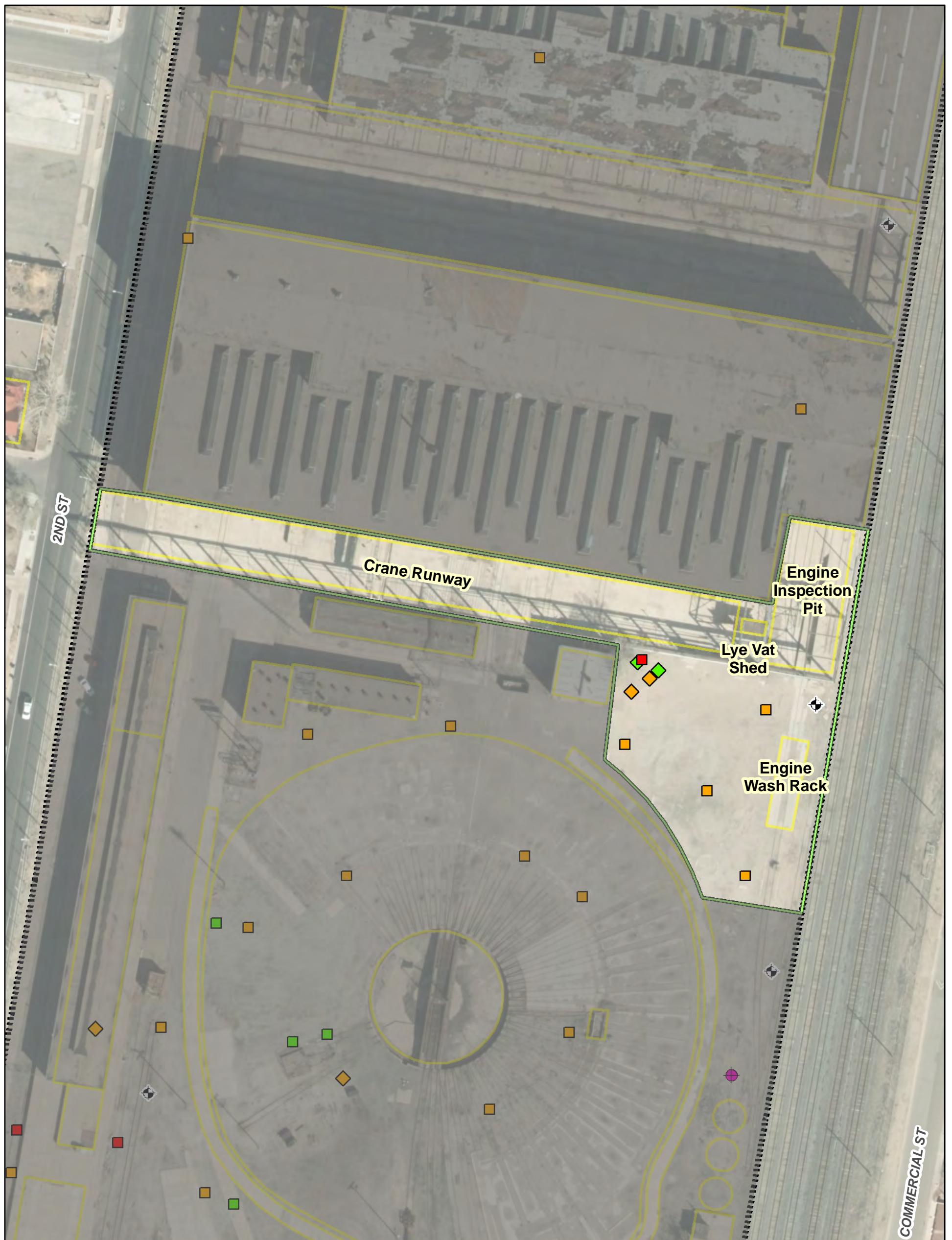
SSL Exceedance	Non-Detect
■ Soil Boring	■ Soil Boring
■ Detect below SSL	■ Surface Soil; Subslab
■ Soil Boring	■ Soil Boring
◆ Surface Soil	◆ Surface Soil

● 2016 Soil Boring - Soil Sample >10 ft bgs
● Monitoring Well
■ Parcel 4 Boundary
■ Property Boundary



Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
 SSL: Soil Screening Levels (NMED, 2015)

Figure 4c
Residential SSL Exceedances (0-10 ft bgs), Benzo(b)fluoranthene Additional Characterization, Voluntary Remediation Program Activities, Albuquerque Rail Yards, Albuquerque, Bernalillo County, New Mexico



Legend

SSL Exceedance

- Soil Boring

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab

Detect below SSL

- Soil Boring
- ◆ Surface Soil

● 2016 Soil Boring - Soil Sample >10 ft bgs

◆ Monitoring Well

□ Parcel 4 Boundary

▨ Property Boundary

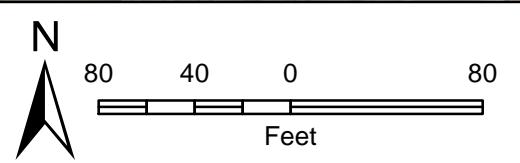
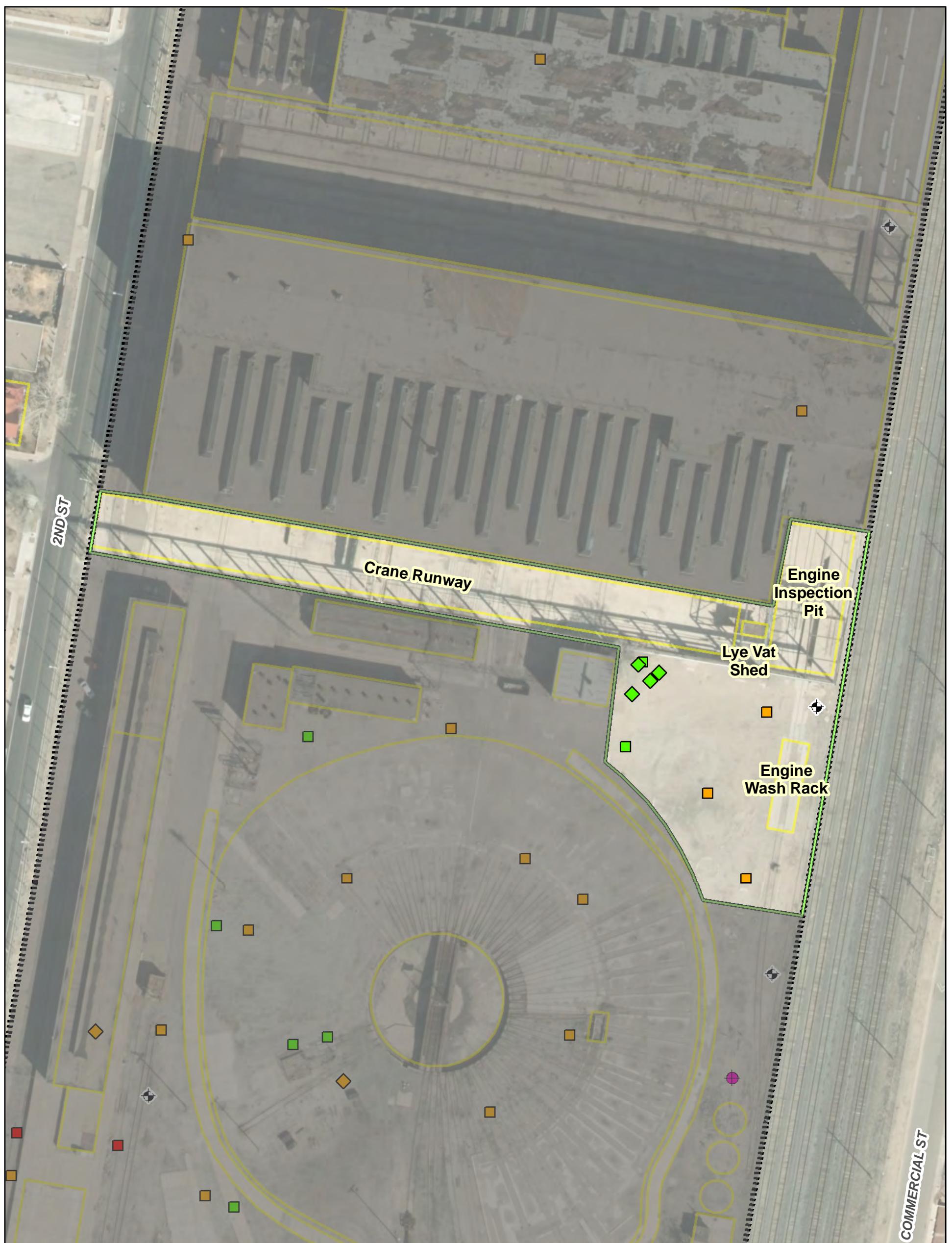


Figure 4d
Residential SSL Exceedances
(0-10 ft bgs), Dibenzo(a,h)anthracene
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



SSL Exceedance

- Soil Boring

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab

Detect below SSL

- Soil Boring
- ◆ Surface Soil

Legend

● 2016 Soil Boring - Soil Sample >10 ft bgs

● Monitoring Well

□ Parcel 4 Boundary

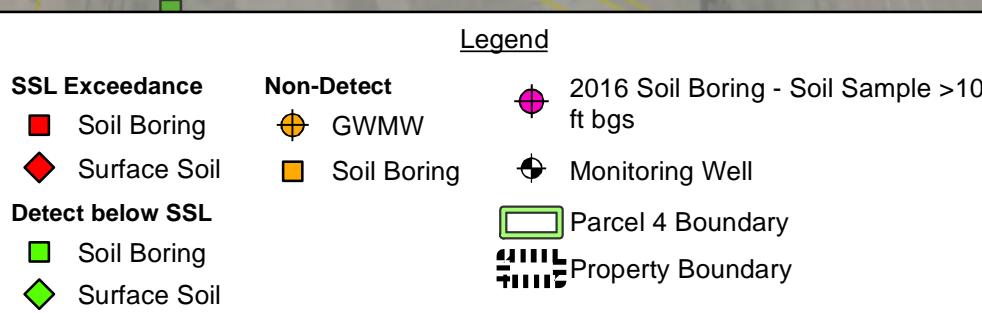
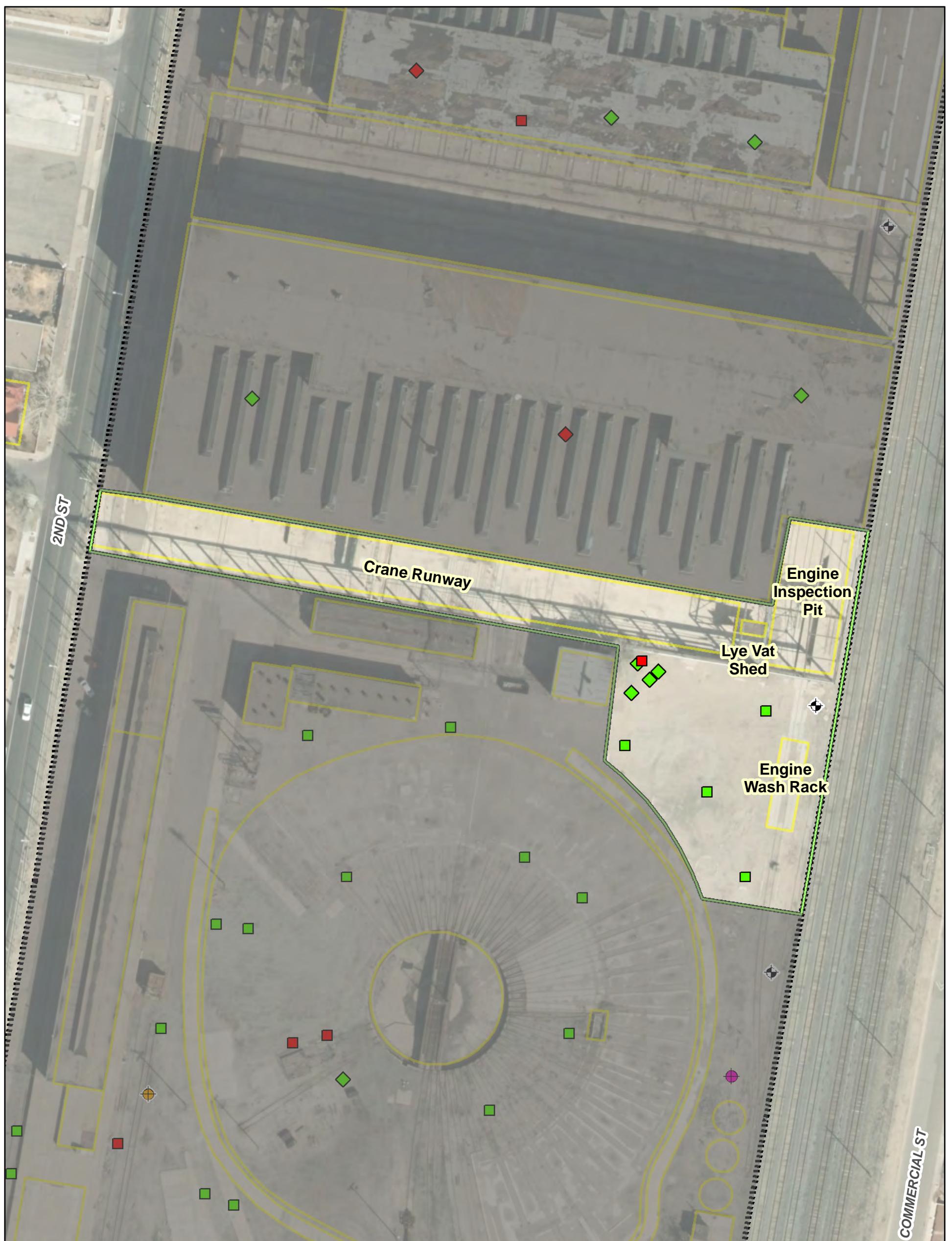
■ Property Boundary



80 40 0 80
Feet

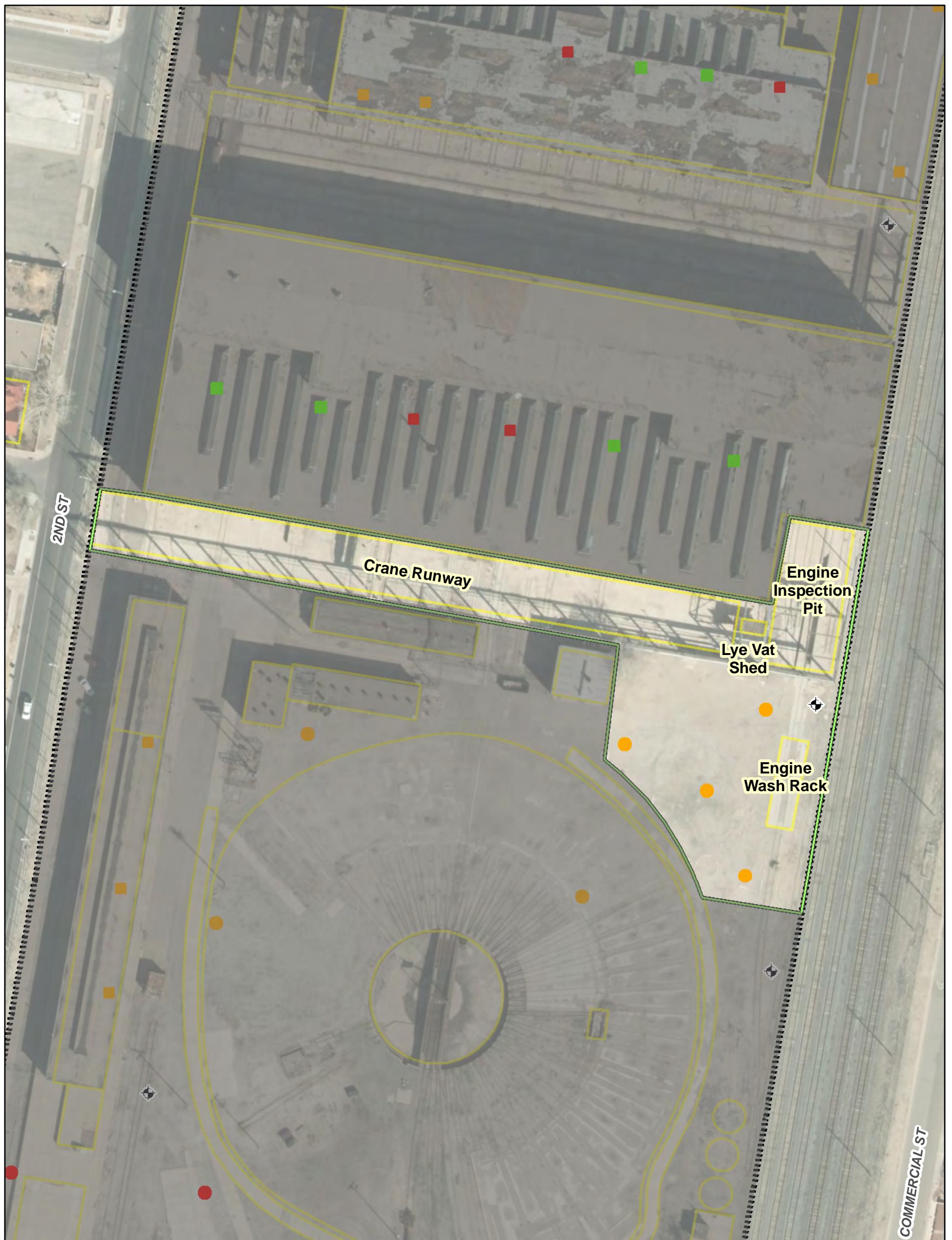
Figure 4e
Residential SSL Exceedances
(0-10 ft bgs), Indeno(1,2,3-cd)pyrene
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Note: TPH DRO + MRO is the summation of TPH DRO and TPH MRO, if non-detect than the laboratory reporting limit was used. Older TPH results from are reported as Total TPH. Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs). SSL: Soil Screening Levels (NMED, 2015)

Figure 5
Residential SSL Exceedances
(0-10 ft bgs), TPH DRO + MRO, TPH
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico



VISL Exceedence

- Soil Gas Sample
- Sub-Slab Soil Vapor Sample

Non-Detect

- Soil Gas Sample
- Sub-Slab Soil Vapor Sample

Detect below VISL

- Sub-Slab Soil Vapor Sample

● Monitoring Well
■ Parcel 4 Boundary
■ Property Boundary

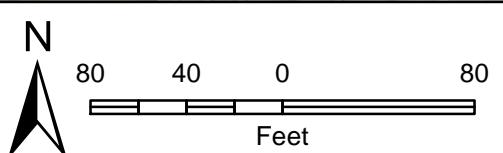


Figure 6
Naphthalene Soil Gas and Sub-Slab Soil Vapor Residential VISL Exceedance Additional Characterization, Voluntary Remediation Program Activities, Albuquerque Rail Yards, Albuquerque, Bernalillo County, New Mexico



B= Benzene
EDB = 1,2-dibromoethane
 Σ Naph = Naphthalene + 1,Methylnaphthalene + 2, Methylnaphthalene

Well ID
Analyte: Results in $\mu\text{g/L}$ (micrograms per liter),
Red/Bold indicates value or laboratory reporting limit in excess of the NMWQCC standards or Petroleum Storage Tank Bureau Action Level.

Figure 7
Distribution of Dissolved-Phase Contaminants,
November 4, 2016
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

TABLES

TABLE 1
Laboratory Analytical Results - Soil, Organics
Parcel 4 Additional Site Characterization Report
City of Albuquerque Rail Yards, Albuquerque, New Mexico

Soil Boring ID	Collection Date	Sample Depth (ft bgs)	PID (ppmv)	PAHs (mg/kg) ¹						VOCs (mg/kg) ²	Organics (mg/kg) ³	
				Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Dibenz(a,h)anthracene	Ind(1,2,3-cd)pyrene	Naphthalene			
SSLs ^a	Residential	NE	NE	1.53	0.153	1.53	0.153	1.53	49.7	49.7	1000 ^b	NE
	Industrial/Occupational	NE	NE	32.3	3.23	32.3	3.23	32.3	241	241	3000 ^b	NE
	Construction Worker	NE	NE	240	24.0	240	24.0	240	159	159	NE	NE
SB-6 (5-10)	10/25/2016	5-10	0.5	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.25	< 0.056	< 49	< 2.8
SB-7 (5-10)	10/25/2016	5-10	9.4	0.050	0.050	0.037	< 0.0097	0.055	< 0.24	< 0.052	540	< 2.6
SB-8 (5-10)	10/25/2016	5-10	0.1	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.25	< 0.057	< 48	< 2.9
SB-9 (5-10)	10/25/2016	5-10	1.2	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.25	< 0.052	< 47	< 2.6

Notes:

For select samples the RL did not meet Residential SSLs; therefore, analytical laboratory reported down to MDL

a = New Mexico Environment Department SSLs (NMED, 2015)

b = Soil screening levels from Table 6-2 (NMED, 2015)

1 = Analyzed by EPA Method 8310

2 = Analyzed by EPA Method 8260B; includes in-field methanol extraction

3 = Analyzed by EPA Method 8015B; GRO testing includes in-field methanol extraction

4 = TPH DRO/MRO includes the sum of DRO and MRO values. The RL for TPH DRO/MRO = highest RL for individual compounds; when summing detections, values listed as "<" RL in the laboratory report are assumed to be 0

bgs = below ground surface

DRO = diesel range organics

GRO = gasoline range organics

EPA = U.S. Environmental Protection Agency

ft = feet

MDL = method detection limit

MRO = Motor oil range organics

NE = None Established

NMED = New Mexico Environment Department

PAH = polycyclic aromatic hydrocarbon

PID = photoionization detector

ppmv = parts per million by volume

RL = reporting detection limit

SSLs = soil screening levels; Risk Assessment Guidance for Investigations and Remediation, July 2015

TPH = total petroleum hydrocarbons

VOCs = volatile organic compounds

TABLE 2
Laboratory Analytical Results - Soil, Inorganics
Parcel 4 Additional Site Characterization Report
City of Albuquerque Rail Yards, Albuquerque, New Mexico

Soil Boring ID	Collection Date	Sample Depth Interval (ft bgs)	Inorganics (mg/kg) ¹							
			Antimony	Arsenic	Chromium	Iron	Lead	Manganese	Thallium	
SSLs ^a	Residential		31.3	4.25	96.6	54,800	400	10500	0.782	
	Industrial/Occupational		519	21.5	505	908,000	800	160,000	13.0	
	Construction Worker		142	57.4	134	248,000	800	464	3.54	
SB-6 (5-10)	10/25/2016	5-10	< 4.9	3.2 J	10	22,000	6.6	290	< 1.5	
SB-7 (5-10)	10/25/2016	5-10	< 2.4	< 2.4	5.0	7,900	4.9	180	< 0.74	
SB-8 (5-10)	10/25/2016	5-10	< 2.4	< 2.4	8.1	16,000	3.6	210	< 0.75	
SB-9 (5-10)	10/25/2016	5-10	< 2.4	4.1	7.3	11,000	2.5	240	< 0.75	

Notes:

Bold red text indicates v values or RLs in excess of the NMED SSLs

For select samples the RL did not meet Residential SSLs; therefore, analytical laboratory reported down to MDL

a = New Mexico Environment Department SSLs (NMED, 2015)

1 = Analyzed by EPA Method 6010B

bgs = below ground surface

ft = feet

EPA = U.S. Environmental Protection Agency

J = Estimated v value below the RL

MDL = method detection limit

mg/kg = milligram per kilogram

NMED = New Mexico Environment Department

ppm = parts per million

RL = reporting detection limit

SSLs = soil screening levels; Risk Assessment Guidance

for Investigations and Remediation, July 2015

TABLE 3
Laboratory Analytical Results - Soil Vapor
Parcel 4 Additional Site Characterization Report
City of Albuquerque Rail Yards, Albuquerque, New Mexico

Soil Boring ID	Soil Vapor ID	Collection Date	VOCs ($\mu\text{g}/\text{m}^3$) ¹															
			1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dioxane	2-Methylnaphthalene	Benzene	Carbon Tetrachloride	Ethylbenzene	Naphthalene	o-Xylene	p&m-Xylene	Tetrachloroethene	Toluene	EDB	
VISL	NMED VISLs ^a		52,100	NE	NE	NE	NE	NE	36	46.8	112	8.26	1040	1040	417	52,100	0.468	
	EPA VISL ^b		170,000	240	NE	NE	190	NE	120	160	370	28	3500	3500	1400	170,000	1.6	
SB-6	SV-06A	10/25/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<2.5	<10	<10	<10	<10	
SB-7	SV-07A	10/25/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<2.5	<10	<10	<10	<10	
SB-8	SV-08A	10/25/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<2.5	<10	<10	<10	<10	
SB-9	SV-09A	10/25/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<2.5	<10	<10	<10	<10	

Notes:

Bold red text indicates values or RLs in excess of one of the VISLs

For select samples the RL did not meet NMED or EPA VISL; therefore, analytical laboratory reported down to MDL

a = New Mexico Environment Department (NMED) VISLs from Table A-3 (NMED, 2015) unless otherwise noted

b = Calculated from EPA VISL Calculator (EPA, 2016) because the VISL was not available from NMED

1 = Analyzed by EPA Method TO-17

EPA = U.S. Environmental Protection Agency

$\mu\text{g}/\text{m}^3$ = microgram per cubic meter

J = Estimated value below the RL

RL = Reporting Limit

MDL = method detection limit

VISL = Vapor Intrusion Screening Level

NMED = New Mexico Environment Department

VOCs = volatile organic compounds

NE = None Established

TABLE 4
Laboratory Analytical Results - Groundwater
Parcel 4 Additional Site Characterization Report
City of Albuquerque Rail Yards, Albuquerque, New Mexico

Sample ID	Date	Organics ($\mu\text{g}/\text{L}$)						
		Benzene ¹	Toluene ¹	Ethylbenzene ¹	Total Xylenes ¹	EDB ²	Total Naphthalenes ^{3,4}	Total Naphthalenes ^{1,4}
NMWQCC Standard		10	750	750	620	0.1	30	30
MW-5	7/29/1996	<1.0	<1.0	<1.0	<5	<5	<2.5	-
	11/1/1996	<1.0	<1.0	<1.0	<5	<5	<2.5	-
	2/6/1997	<1.0	<1.0	<1.0	<5	<5	<2.5	-
	6/11/1998	<1.0	<1.0	<1.0	-	-	-	-
	12/2/1999	<1.0	<1.0	<1.0	<1	<1	<2.5	-
	10/22/2005	<1.0	<1.0	<1.0	-	-	<0.1	-
	9/4/2010	<1.0	<1.0	<1.0	<0.54	-	<0.97	-
	11/4/2016	<1.0	<1.0	<1.0	<1.5	<0.010	-	<4.0

Notes:

1 = Analyzed by EPA Method 8260B

2 = Analyzed by EPA Method 504.1 or Method 8260B

3 = Analyzed by EPA Method 8230

4 = Total naphthalenes includes the sum of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene. RL for Total naphthalenes = highest RL for individual compounds; when summing detections, values listed as "<" RL in the laboratory report are assumed to be 0

EDB = 1,2-dibromoethane

EPA = U.S. Environmental Protection Agency

$\mu\text{g}/\text{L}$ = microgram(s) per liter

NMWQCC = New Mexico Water Quality Control Commission

NMWQCC Standard = Groundwater Standards as defined by the State of New Mexico Water Quality Control Commission (NMWQCC, 2002)

RL = reporting detection limit

Appendix A

Field Notes, Field Forms, and Boring Logs

3/2/12

- Deconnected bladder pump with liquinox and DI. Switched out bladder.

- 0915 moved to MW-03
- Started pumping at 0942
Water Silty at first, black
- Minimal drawdown observed
Pumping at

- Collected a Sample @ 1004
final readings

pH = 7.38

Temp°C = 17.89

SPC_{45/0m} = 56.7

ORP_{MV} = -88.4

DON_{mg/L} = 2.12

(0-VOAs)

W/HCL

82(6)SL

80FS

Tagged PTWA MW-E™ SB-09

DW = 29.69, no LNAPL detected

Pulled well and backfilled with bentonite

- Cleanup. Off-site 1020

10/19/2016

One Call Utility Marking MJS

1000 M. Sphy on-site in Northern Parking Lot
Weather: Sunny, 60's
TGSM - watch for traffic

Objectives:

- ① Mark "Spot" on western boundary of Railyard: 1st & 2nd Street
- ② Contact One-Call Utility Check
- ③ Coordinate site access between One Call + COA.

1015 Meet Justin D. Schram, E.I. from High Mesa Consulting Group.

His company is designing storm drain system for the Railyard

They have V.G. Utility Map, we can contact H.M Surveyor Chuck Cala for more info.

1115 Complete Spot Marking " " \leftrightarrow SPOT 10/19
on N/S Boundary at 1st / 2nd Street
of Railyard.

Call One Call, Ticket #16 Oct 190394

10/19/2016 OneCall Utility Marking MJS 10/24/2016 Addl Site Characterization MJS

- One call will issue 10-Day work permit, expires COB Nov 4.
- Must notify one call 2 Business days before Nov 4 for Permit Extension
- Utility Locator to Complete work by 10/21/2016.

1120 Update J.Traey, E.Mercado

1135 M. Sophys off-site

M//M

0850 M. Sophys on-site to meet w/ David Chalosworth Environmental (DCE) & City of Albuquerque (COA) representatives regarding Ashland & Lead Testing.

0920 Met wheels Museum representative Annie Chase
cell 550-5066
office 243-6269

She will open close wheels museum during DCE's investigation

M.H Butkus - COA
here today while Gake is unavailable
Cell: (505)507-0212

Michael Nieman - DCE
all (505)401-8905

0930 Site tour w/ M.H Butkus
D Chalosworth would like to visit/sample sites requiring EPA first. Rather than visit forced by forced. Will check if OK w/ C. Macallat/J.Traey.

10/24/16

Add'l Site Charac.

MS

1000 M Soph off site to INTERA Ab. office to mob for Soil Sampling

1300 Lynde on-site @ wheels Museum and meet Vista drillers. They are getting prepped.

Objectives / start drilling in parcel 1 or 2. Collect soil + vapor samples

1315 Conduct H+S meeting

1325 Walk around Parcels 1 + 2 to identify site boundary and proposed locations.

1400 Vista begins unloading geoprobe. Calibrate PID Mini Rae (INTERA)

1420 Eileen + Matt on-site

1445 Begin setting up @ SB-1 (Parcel 1, SE corner)

1645 Finished collecting sample @ SB-4. Have collected soil samples from SB-2 + SB-3 as well.

4/MS

Add'l Site Charac. 10/24/16
Summary of PID results Sample Submitted

SB-1 0-4 = 3402

4-9 = 788

9-10 = >10,000

SB-1 (9-10)

@ 1510

SB-2

0-4 = 921

4-8.5 = 874

8.5-10 = >9999

SB-2 (8.5-10)

@ 1535

SB-3

0-3.5 = 33.4

3.5-4.5 = 28.5

4.5-7 = 55.4

8.5-10 = 479

SB-3 (8.5-10)

@ 1600

SB-4

0-4 = 51.8

4-10 = 3.7

10-12 = 227

12-15 = 156.

SB-4 (10-12)

@ 1630

- Soil samples will be submitted to HEAL for VOCs (8260B), PAHs (8310) TPH (GRO, DRO, MRO via 8015) + metals (antimony, arsenic, chromium, iron, lead, manganese, thallium via 8010)

- We used the heated head space method to collect PID readings

- Mason jars + tools were decontaminated between borings. Geoprobe equip as well.

1650 Matt from the city on-site to lock gate

1705 INTERA + geo Vista geo offsite

Up 10/24/16

10/25/14

Add'l Site Characterization

October 25, 2014

Lynne Price

Cloudy, little rain in a.m (50's); partly sunny pm
(70's)

0720 Lynne on-site

0725 Vista Geo on-site

0740 Matt Butkows from COA on-site
to unlock the gate.

Objectives: Finish collecting soil
samples from Parcels 1 + 4.
Collect soil vapor samples from those
parcels too.

0755 Conduct H+S meeting + go over
objectives. (d. PID).

0810 Walk site to spray paint the
next 3 boring locations

0825 Drilling boring @ SB-5
(located in Parcel 1, SE portion)

PID is not working properly so Jim
was called + he is bringing a new
PID to the site. We will start

cp

8.

Add'l Site Characterization 10/25/14

collecting SV samples in Parcel 4
since we know the locations.

0935 Begin marking boring locations in
Parcel 4.

1005 Vista Geo Sets up @ SB-6 location
to collect soil vapor sample @ 5' bgs.

1025 Jim from INTERA on-site and has
new PID. I finish doing the head
space readings and they are more
accurate. SB-5 (6-10) is collected
@0840

1045 Jim offsite. Vista did not get
a good seal on the first boring so
they are moving over to drill again to
5' and will try to set up again.

Vista collects SV-06 (2 sorbant
tubes). They purge 3 volumes before
collecting sample + verify O₂/CO₂ is
stable. PID value is measured after
purging and before sample collection.

$$\text{PID} = 1.1 \text{ ppm}$$

10/25/14

Add'l Site Charac.

up/ms

u/ms

Add'l Site Charac.

10/26/14

1145 Finished collect SV sample. Move over to collect soil sample & drill to 10'.

1157 SB-6 (5-10) collected

1210 Begin drilling [SB-7] (In parcel 4, most western location)

1220 SB-7 (5-10) collected

→ Soil vapor samples were collected

$\text{CO}_2 \sim 1335$. PID = 1.9 ppm
[SV-07]

1320 Matt Sophys on-site

1345 At [SB-8] (in Parcel 4, central)

1356 Sampled SB-8 (5-10)

1400 Vista Geo sets up to collect SV sample. CO₂ is reading zero, indicating a possible leak in tubing set-up. They drill a new boring next to the original. O₂/CO₂ levels look good.

They collect [SV-08] PID = 4.5 ppm

1405 Begin drilling [SB-9] (In parcel 4, SE corner)

1413 SB-9 (5-10) collected.

1415 Move over to set up to drill borehole for [SV-09]

Had difficulties with scaling 3 way valve but made it work after trouble shooting for awhile.

PID = 0.0 ppm

1745 At [SB-10] to drill (Parcel 1, NE)

1755 SB-10 (5-10) collected

Summary of PID Results

	Interval	ppm	★ = Interval soil sample was collected & submitted.
[SB-5]	0-4'	2.2	
	4.5-6	0.0	
	6-10	107 ★	
[SB-6]	0-3	0.0	
	3-5	0.0	
	5-10	0.5 ★	
[SB-7]	0-5	1.4	
	5-10	9.4 ★	
[SB-8]	0-5	0.0	
	5-10	0.1 ★	
[SB-9]	0-5	0.0	
	5-10	1.2 ★	

10/26/14

Add'l Site Charac.

up_{mg}

Add'l Site Charac.

10/26/14

$$\boxed{\text{SB-10}} \quad 0-5 = 0.4$$

$$\boxed{\text{SB-10}} \quad 0-5 = 0.5$$

- Mason jars + geoprobe were cleaned between sample locations.
- Vista Geoscience were contracted to collect SV samples. They recorded O₂/CO₂/MeOH values on field forms. 2 sorbent tubes were collected at each locations

1800 Matt from the COA on-sits to lock up site.

INTERA + Vista clean up area + they secure their Geoprobe

1815 INTERA, Vista Geo, + Matt off-site.

J 10/25/14

October 26, 2014

Sunny 50's am, 70's pm
Lynde Pt.

0720 Lynde on-site

0725 Geo Vista onsite and Matt from the city. Matt opens the gate for us.

0735 Conduct H+S meeting. Go over objectives for today

[Objectives] Finish collecting soil samples in Parcels 1 + 2. Collect as many SV samples as possible.

0745 Calibrate PID MiniRae w/ 100 ppm Isobutylene. (ESP Rental)

0755 Start drilling @ SB-11 (in Parcel), in NW corner)

0802 Collect SB-11 (0-5)

0845 Starting drilling @ SB-12 (Parcel 1, west side)

0852 SB-12 (0-5) collected

10/20/14 Add'l Site Charac. 10/20/14 Add'l Site Charac.

0923 Starting to drill @ [SB-13]
(Parcel 1, East side)

0930 SB-13 (10-15) Collected

0958 Starting to drill @ [SB-14]
(Parcel 2, NE corner)

1003 SB-14 (5-10) Collected

1029 Drilling [SB-15] (Parcel 2,
SW of SB-14)

1035 SB-15 (3-6) collected

~~1055~~

1055 Drilling [SB-16] (Parcel 2,
E of platform [on east side])

1106 SB-16 (5-10) collected

1135 Drilling [SB-17] (Parcel 2,
W of platform + south of SB-14)

1140 SB-17 (3-6) collected

1155 Drilling [SB-18] (Parcel 2,
W of platform + south of SB-17)

1202 Sampled SB-18 (3-6)

1214 Drilling [SB-19] (Parcel 2, S central)
1217 Sampled SB-19 (5-10)

1228 Drilling [SB-20] (Parcel 2, middle
of the southern border)

1232 Sampled SB-20 (3-6)

1300 Vista Geo begins setting up @
SB-16 for soil vapor collection.
O₂/CO₂ levels stable + Z sorbent
tubes are filled [PID = 2.9 ppm]
[SV-16] collected

1315 Discuss w/ Eileen about SV sample
locations and instead of collecting
them where we saw the highest PID
values, we decide to spread them
across the footprint of the proposed
development in parcels 1 + 2. (buildings
and/or parking structures)

Decide to collect them from:

Parcel 1

SB-4; SB-12
SB-10;
SB-11;

Parcel 2

SB-3; SB-14
SB-14;
SB-17;

10/26/16

Add'l Site Charac.

1400

Set up @ SB-17 to collect

[SV-17] Purged 3 volumes;

O₂/CO₂ levels good/stable;

PID = 1.4 ppm. (before sample collected)

1440

Set up @ SB-3 to collect

[SV-03] Purged 3 volumes;

O₂/CO₂ levels good/stable;

PID = 2.1 ppm (before sample collected)

1512

Heading to SB-14 to collect

[SV-14] Purged 3 volumes;

O₂/CO₂ levels stable;

PID = 3.6 ppm.

1550

Setting up @ SB-4 to collect

[SV-04] Purged 3 volumes;

O₂/CO₂ levels stable;

PID = 1.9 ppm

1620

Setting up @ SB-12 to collect

[SV-12] Purged 3 volumes;

O₂/CO₂ levels stable;

PID = 1.3 ppm

up

of

Add'l Site Charac.

10/26/16

1650

Moving to SB-11 to collect

[SV-11]. CO₂/O₂ levels are

not stabilizing so we will move
over and drill in a new location,
~2' over

The new location is producing stable
O₂/CO₂ levels. 3 volumes purged.

PID = 0.5 ppm

1730

At SB-10 to collect

[SV-11]. Purged over 3 volumes;

O₂/CO₂ stabilized;

PID = 1.0 ppm

- The soil + soil vapor samples
have ~~not~~ been collected from Parcels
1, 2 + 4 successfully. Will move to the
northern portion of the Site tomorrow.

- The soil samples are on ice, labeled
and the methanol extraction kits have
been used.

- Mason jars for head space readings
+ Geoprobe rods were deco

10/26/14 Addnl. Site Charac.

Summary of PID Readings

Interval (ft) ppm

[SB-11] 0-5 = 0.4 *

5-10 = 0.1

[SB-12] 0-5 = 0.2 *

5-10 = 0.0

[SB-13] 0-5 = 1.3 *

5-10 = 0.4

10-15 = 3.5 *

[SB-14] 0-5 = 1.3

5-10 = 28.3 *

[SB-15] 0-3 = 0.8

3-6 = 558 *

[SB-16] 0-5 = 1.8

5-10 = 358 *

[SB-17] 0-3 = 0.3

3-6 = 0.9 *

[SB-18] 0-3 = 0.4

3-6 = 0.8 *

[SB-19] 0-5 = 0.7

5-10 = 44.4 *

[SB-20] 0-3 = 0.4

3-6 = 0.9 *

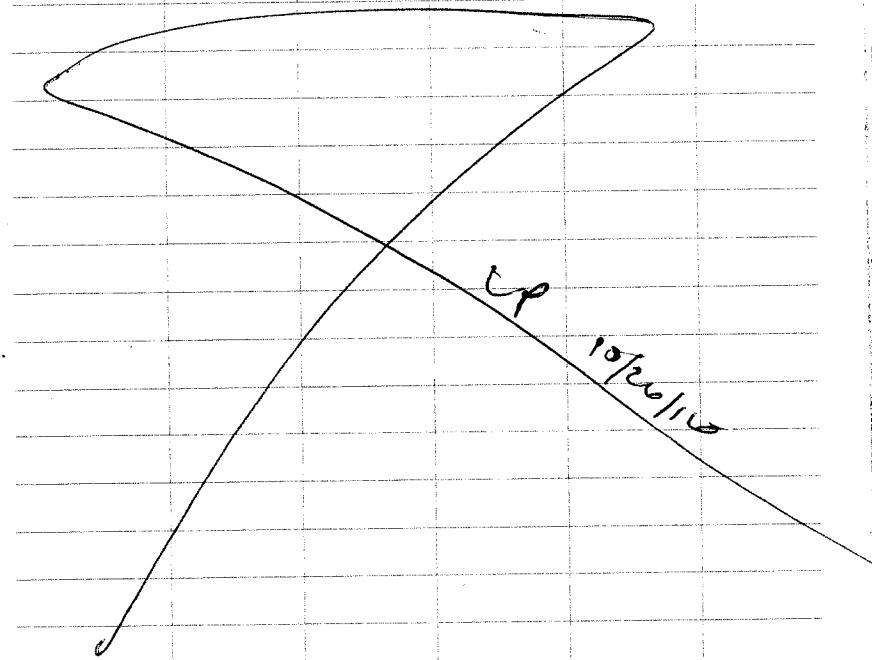
* = Interval the soil sample
was collected + submitted to HEAL.

up &

10/26/14 Add'l Site Charac.

1825 Matt B: on-site. He locks
the southern portion of the
site and he brings us to
the northern portion of the
site so Vista can drop
off their Geoprobe/trailer.

1900 Gate is locked + INTERA,
Vista, + COA off-site.
Site is secure



10/27/16

Add'l Site Charac.

v/vms

v/vms

Add'l. Site Charac.

10/27/16

October 27, 2016

Sunny, 40's a.m + 70's p.m, breezy
Lynda Price + Matt Sophy0725 Matt + Lynda on-site. + meets Vista Geo + Matt B. from the city.
Matt B. opens the gates on the north side of the property for us.

0740 Conduct H + Safety meeting + go over today's objectives.

Objectives Collect all soil samples from Section 9 + 10 and collect as many soil vapor samples as we can from those locations.

0755 Calibrate the MiniRae PID (Rental from ESP) w/ Isobutylene 100 ppm.

0810 Begin drilling at SB-21 (Parcel 10, E side).

0815 Sample collected SB-21 (0-5)

0830 Begin drilling @ SB-22 (Parcel 10, SE)
SB-22 (3-6") collected0853 Begin drilling @ SB-23 (Parcel 10, central)
SB-23 (0-5") collected.0915 Begin drilling SB-24 (Parcel 10, SW corner)

0920 SB-24 (0-5") collected

0937 Begin drilling SB-25 (Parcel 10, central N)

0945 SB-25 (0-3") collected

0957 Begin drilling SB-26 (Parcel 10, N)

1002 SB-26 (10-15") collected

1035 Begin drilling SB-27 (Parcel 10, NW)

1038 SB-27 (0-5") collected

1055 Begin drilling SB-28 (Parcel 98, NE corner)

1057 SB-28 (0-5") collected

10/27/14	Addnl Site Characterizations	11ms	Addnl Site Charac...	10/27/14
1120	Begin drilling <u>SB-29</u> (Parcel 9, NW)		I talked to Eileen and confirmed the SV locations in Parcel 10. We will collect them @:	
1122	SB-29 (0-5) collected		SB-21; SB-23; SB-27; SB-32	
1138	Begin drilling <u>SB-30</u> (Parcel 9, southern portion of parcel)		1330 The O ₂ /CO ₂ levels have stabilized and >3 volumes have been purged @ SV-32.	
1146	SB-30 (0-5) collected		PID = <u>0.9 ppm</u>	
1200	Lunch break			
1235	End of break			
1244	Begin drilling <u>SB-31</u> (Parcel 9, E side)		1345 At SB-31 to collect a soil vapor sample <u>SV-31</u> (Parcel 9) O ₂ /CO ₂ stabilized, >3 volumes removed.	
1250	SB-31 (0-5) collected		PID = <u>1.3 ppm</u>	
1300	Begin drilling @ <u>SB-32</u> (Parcel 10, Southern border)		1410 At SB-30 to collect <u>SV-30</u>	
1305	SB-32 (0-3) collected			
1320	Vista Geoscience begins setting up @ SB-32 to collect a soil vapor sample here <u>SV-32</u>		[Note] Each soil vapor point is pushed to 5 bgs.	
			1420 CO ₂ /O ₂ levels stable; >3 volumes purged; PID = 1.0 ppm	

10/27/14 Add'l Site Charac. v/v/vs v/v/vs Add'l Site Charac 10/27/14

1440 At SB-29 to collect
[SV-29] O₂/CO₂ levels stable;
> 3 volumes purged;
PID = 1.3 ppm

Note Vista Geosciences gave INTERA
the remaining sorbant tubes.
There were [11] total left
over.

1510 At SB-28 to drill + collect
[SV-28]
O₂/CO₂ levels stable; > 3 volumes
purged; PID = 1.5 ppm

1540 Parcels 9 & 10 have
successfully been sampled -
soil + soil vapor. INTERA
will drop off soil sample to HEAL
first thing in the morning & Vista
Geosciences will submit the
sorbant tubes.

At [SB-27] to drill + collect
[SV-27]
O₂/CO₂ levels stable; > 3 volumes
purged; PID = 2.7 ppm

Summary of PID Results

Interval	ppm
0-5	5.3 *
5-10	0.0

10-15 = 0.3

[SB-22]	0-3 = 1.2
3-6	2.1 *

0-3 = 1.2

3-6 = 2.1 *

[SB-23]	0-5 = 0.0 *
5-10	= 0.0

0-5 = 0.0 *

5-10 = 0.0

[SB-24]	0-15 = 0.0
0-3	= 2.1 ↗

0-15 = 0.0

0-3 = 2.1 ↗

3-6 = 0.0

1605 At SB-21 to drill + collect
[SV-21]
O₂/CO₂ levels stable; > 3 volumes
purged; PID = 1.5 ppm

1640 At SB-23 to drill + collect
[SV-23]
O₂/CO₂ levels stable; > 3
volumes purged;
PID = 1.6 ppm

10/27/14

Add'l Site Charact.

Interval ppm

SB-25

$0-3 = 0.4$

$3-6 = 0.0$

SB-26

$0-5 = 0.8$

$5-10 = 0.0$

SB-27

$10-15 = 1.8$

$0-5 = 1.4$

$5-10 = 0.0$

SB-28

$10-15 = 0.0$

$0-5 = 0.0$

$5-10 = 0.0$

SB-29

$0-5 = 0.0$

$5-10 = 0.0$

SB-30

$0-5 = 5.0$

$5-10 = 0.0$

SB-31

$0-5 = 1.2$

$5-10 = 0.0$

SB-32

$0-3 = 0.0$

$3-6 = 0.0$

cf/ms

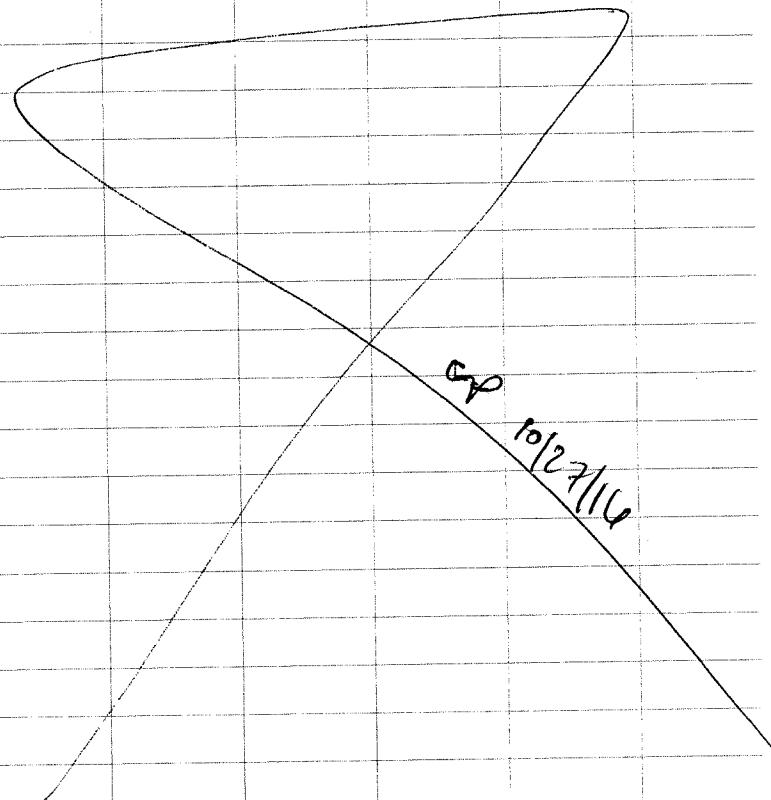
cf/ms

Add'l Site Charac.

10/27/14

we are finished. It's ok w/ us leaving w/out him there. We will dummy lock the gates.

1720 INTERA + Vista Geosciences offsite.



\star = Indicates the interval that the soil sample was ~~bottom~~ collected + submitted to HEAL.

1715 INTERA calls Matt B. from COA + let him know

10/31/2016

Sub-Slab Soil Vapor

MS/CS

750 MS supply, (Shut on-site)

Meet Gabriel (COA) to open N. Gate &
S. Gate to rail yardGabriel is part of contact. He will
meet us every day at 0800 & 1700 to
open/close gates.

Objective: Install 6 vapor pins in Machine Shop.
 Collect 6 sub-slab vapor samples from
 pins in Machine Shop.

Weather: Clear, 60's

0815 TGSM, Calibrak CGI, CO: 100 ppm isobutylene

0830 Mark 6x vapor pin locations.

Phone call to confirm locations w/ G. Marshall.

0845 Set up to install Vapor pin

SV-5-1

↑ ↑ ↑

Soil Vapor Sample

0930 First location, slab too thick for
 $5/8"$ bit, 16" long-

Move North to Train Bay, ~3' deep

Will test w/ small bit first

10/31/2016

Sub-Slab Soil Vapor

MS/CS

1015 Unable to get through slab in train sump.
 At least 16-inches thick. See photosContact E. Macmillan to let her know situation.
 She says to go attempt pin install in bathroom.

1114 Successfully instl first vapor pin.

Broke through concrete slab into sand @ 11" bgs

Located in 3¹/₂ bay from west in Doctor Room
 SV-8-1

Clark goes to scout additional vapor pin locations

1155 Install Vapor Pin #2

In first train sump from west side of building

SV-8-2

1225 Attempt to drill through slab at ground
 surface, not in a train sump.Next to entrance to Tires Shop, east side
 of closure.

Cannot penetrate slab, <16" thick

Lunch

10/31/2016

Sub-Slab Soil Vapor

MS/CS

10/31/2016

Sub-Slab Soil Vapor

MS/CS

1320 Phase coll w/ Eileen

- Concrete coring company will be on-site tomorrow at 1200. $5\frac{1}{8}$ " core bit is 22" long, if slab is deeper, we will order a longer bit.
- Coring company has $1\frac{1}{2}$ " core to test slab thickness if we can't get through w/ $5\frac{1}{8}$ " bit. Will fill + cover.
- Call COA to meet us at Wheels Museum at 0800 on Wednesday.
- Current plan, install 2x vapor pins in Tender House.

1330 Set up to install Vapor Pin.

Concrete slab < 16"

Also, high torque at bottom, possibly different material

1345 Set up to install Vapor pin next to office along E. Wall of Tender shop.
< 16" Concrete Slab

High torque on bottom

1400 Set up to inst. ll Vapor pin in Northern End of Flew Shop

1415 Inst. ll Vapor Pin SV-8-3

5 $\frac{1}{2}$ " of concrete slab (bgs)

Drill vapor well 16" bgs

Mark location w/ Arrow on Wall (See Photos)

1430 Set up to install vapor pin in Central Flew Shop

SV-8-4

14- $\frac{1}{2}$ " of slab concrete bgs

Drill vapor well 16" bgs

Mark Location w/ Arrow on Flew (See Photos)

1500 Set-up to collect soil vapor sample at SV-8-4
Phase coll to John Fontana (Vista Geosciences)
confirm to pass 1 ml air through sorbent tubeCalibrate PID w/ 100 ppm Isobutylene gas
CGI w/ O₂ 18 ppm CO 10 ppm CH₄ LEC: 2.5%
H₂S: 25 ppmSV-0804 3CV's = 300 cm³, 1.5 min @ 200 cc/min

Stabilized Parameters:

CO: 0 ppm LEC: 0 ppm H₂S: 0 ppm O₂: 6.8 ppm

PID = 3.2 ppm, Vol: 0.96

10/31/2013

Sub-Slab Soil Vapor
Sample collected at 1614

MS/CS

1630 Set-up to collect soil vapor sample at

[SV-08-03] 3 CVs: 301 cm³, 1.5 mm pwy
200ml/min

Stabilized parameters:

CO: 0 ppm LEL: Open H₂S: 0.0 ppm O₂: 11.1 ppm PID: 11.
Vol: 1.0L

Sample collected at 1652

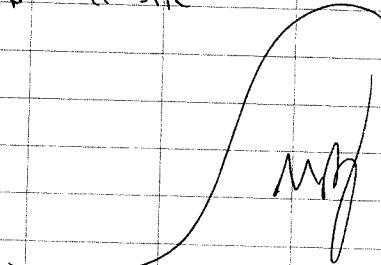
Samples placed in cooler, no ice

1710 Phen coll to Gabriel Rivera (COA)

Confirm he will lock N Gate (1st)Will meet INTERA at 0800 tomorrow at
1st St. G.R.

1717 M.Sphy

C Sheet off-site



11/1/2013

Sub-Slab Soil Vapor

MS/FR

0720 M. Sphy, F. Rucker to Home Depot to purchase
Shop Vac, Dust Masks, Concrete Patch Materials0755 M. Sphy, F. Rucker on-site, North end Rail Yard
J. Tracy (INTERA), Gabe Rivera (COA)
on-site- Walk through Blacksmith Shop to site vapor
pin locations- Will set pins by 1) SE corner next to Kite
2) W. Side, next to office0815 J. Tracy, G. Rivera off-site to COA office to
collect building blueprints to determine
concrete slab thickness

- M. Sphy, F. Rucker off-site to get fuel for generator

0830 M. Sphy, F. Rucker on-site at T-Dr. Shop

- TGSM

- Set up to concrete P&A 3 failed soil vapor
pin locations.

11/11/2016

Sub-Slab Soil Vpgr

MS/FR

11/11/2016

Sub-Slb Soil Vpgr

MS/FR

0915 Piping complete
Take photos to document job.

J. Tracy, G. Rivera onsite.
DCE Hwy onsite

- DCE needs to cut lock on powerhouse building to continue LBP, Asbestos survey

- INTERA looking for bolt cutters to open powerhouse.

0950 G. Rivera opens up gate on south side of Machine Shop to access Machine Shop

Setup to P&A 2 failed vapor pin wells.
- Photos to document work - 2x

J. Tracy (INTERA) looking at blueprints to determine slab thickness in Blacksmith shop
- Will mark vapor pin locations for MS/FR to install this AM.

1020 Set-up to install vapor pins in Block with Shop SV-07-01 w/ stainless steel flush-mount cap.
Slab 5-1/2" thick
Well TD = 18" bgs

1040 - J. Tracy onsite at Blacksmith shop.

- He has marked 9 vapor pin locations in Blacksmith shop

- Instructions to split distance between pldr locations in buildings, where slab is thick. Everywhere else, slab is "6" thick

1050 J. Tracy, M. Syph, F. Rocker walk through +
Powerhouse

F. Rocker cuts lock on powerhouse

G. Rivera onsite

- he installs new lock w/ key on powerhouse
DCE crew to enter powerhouse to sample for LBP & Asbestos

1115 J. Tracy, F. Rocker, M. Syph walk through Machine Shop.

- Mark 6x vapor pin locations.

- Concrete coring company will drill these

11/1/2016 Sub-Slab Soil Vap- MS/FR

holes w/ $\frac{3}{8}$ " bit to 6" below slab

1145 J.Troy, M.Sph, F.Roecker enter Bader room
to mark 1/4" x vapor pin locations

1200 J.Troy, M.Sph, F.Roecker enter
Tender Room

- Mark 2x Vapor Pin Locations.

1230 Lunch

1240 Set-up to inst.ll SV-07-02
Slab w/ 7" thick
Vapor well TD = 21" bgs

1250 Set-up to install SV-07-03
Slab thickness 10-1/2"
TD = 21" bgs

1315 Set-up to inst.ll SV-07-04
Slab thickness 13"
TD = 21" bgs

11/1/2016 Sub-Slab Soil Vap- MS/FR

1345 Concrete Coring Company on Site
F.Roecker, M.Sph meet CCC at
Machine Shop

Phone call w/ E.Maccle

- if we run of tank, Frank & I will
start to locate monitoring wells.

1400 CCC Set up to drill $\frac{5}{8}$ " core on
SV-S01 Slab 6" thick
SV-r5-02 Slab

1430 CCC Sets up to drill dry holes, no core
w/ water.

E.Maccle is concerned about contamination
to the well

SV-05-01 Slab 6" thick
SV-05-02 Slab 6" thick
SV-05-03 Slab 6" thick
SV-05-04 Slab 6" thick
SV-05-05 Slab 5" thick
SV-05-06 Slab 5" thick

11/11/2016

Sub-Slab Soil Vapor

MS/FR

1530 M. Saphy takes CCC crew to Boilerhouse to continue Hammer Drilling $5\frac{1}{8}$ " holes
F. Roessler cont. drilling $1\frac{1}{2}$ " top hole for SV-05-01 → 06 wells

- Set Vapor pins SV-05-01 TD=21" bgs
- SV-05-02 TD=21" bgs
- Cover w/ Black Plastic SV-05-03 TD=21" bgs
- caps, Label SV-05-04 TD=21" bgs
- w/ Black Sharpie SV-05-05 TD=21" bgs
- SV-05-06 TD=21" bgs
- Plan to let vapor pins equilibrate at least 24-hours before sampling.

1605 M. Saphy, F. Roessler to Boiler room to check on CCC Crew.

1620 CCC crew has drilled • 4x $5\frac{1}{8}$ " wells in BoilerShop
• 2x $5\frac{1}{8}$ " wells in TenderHouse

1630 CCC crew off-site

1640 M. Saphy, F. Roessler Set-up to drill $1\frac{1}{2}$ " hole in wells in TenderHouse and set Vapor Pins.

11/11/2016

Sub-Slab Soil Vapor

MS/FR

MJ • SV-05-05 Slab = 12", TD = 21" bgs

MJ • SV-05-06 Slab = 12", TD = 21" bgs

Wells have stainless steel caps since building may get new roof (prevent damage)

- 1715 M. Saphy, F. Roessler set-up to drill $1\frac{1}{2}$ " hole in BoilerShop, & set Vapor pins
- | | |
|----|-----------------------------------|
| MS | • SV-05-07 Slab = 6" TD = 21" bgs |
| MS | • SV-05-08 Slab = 6" TD = 21" bgs |
| MI | • SV-05-09 Slab = 6" TD = 21" bgs |
| MJ | • SV-05-10 Slab = 6" TD = 21" bgs |

1730 G. Rivers (COA) stops by BoilerShop to let us know the Southern Railroad Gates are Secure, including door on Parchman

- He asks us to Lock 1st Street (North) gates when we leave

- Plan to meet at Wheels museum tomorrow at 0800,

1745 M. Saphy, F. Roessler off-site

Call for J Tracy for update

- Plan to Set Vapor pins in Wheels Museum in AM sample in PM, or 24-hours later.

11/11/2016

Sub-Slab Soil V-p

MS/FR

Summary: 23 Vapor Pins installed
+ 20
2 Vapor Pins sampled, safe.
Will inst. 3x V-pins pins - Wheels Museum
tomorrow

4x Stainless Caps - Black

20 Stainless Thread

Most are Plastic Caps

11/12/2016

Sub-Slab Soil V-p

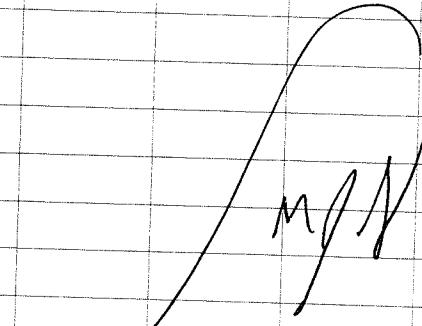
MS/FR

0755 M. Sphy F.Roecker on-site
Weather: Sunny, 50°F.

Objective: 1) Install 3x vapor pins in the Storchhouse at
Wheels Museum

2) Begin sampling vapor pins, starting
in Boiler House, then Blacksmith Shop

- Used Shop Vac to remove dust from vapor wells while drilling
- Wore Dust Masks to Protect Breathing Zone
- Generator capable of powering Vac + Drill at same time
- If Vapor pin silicon sealant is not properly sealing, more stain ~1cm below bottom of pin. It slides up, along pin during install & seals properly.
- Sharpie marker used to Label Vapor Pin Caps.



0800 G. Rivera (COA) on-site

0815 M. Sphy F.Roecker set-up to install 3x Vapor pins in Wheels Museum (Storchhouse)

0845 J. Tracy (INTERA) on-site to confirm vapor pin locations

- TGSM

0900 Set-up to install SV-03-01, in closet behind stairs
Slab 6" thick

TD = 21" bag

(over w/ stainless steel cap).

0920 Set-up to inst. SV-03-02

11/2/2016

Sub-Slab Soil Vapor

MS/FR

- cont -
- SV-03-02 located in 1st Large Room when walking South from Wheels at museum.
 - Located in SE Corner
 - Slab 7" thick
 - TD = 21" bgs
 - Cov ~1 stainless steel cap

0940 Set-up to install SV-03-03

- located in 2nd large room when walking SOUTH from Wheels museum
- 1 room south from SV-03-02
- Located in SE corner of room
- Slab 6" thick
- TD = 21" bgs

0955 Clean-up equipment in Wheels Museum

Will return tomorrow morning at 0800
to collect vapor samples

G. Rivera off-site, J. Tracy off-site

1000 M. Sogli, F. Roemer to Blacksmith shop
to collect soil vapor samples

J. Tracy calls to confirm sampling
at Wheels Museum

11/2/2016

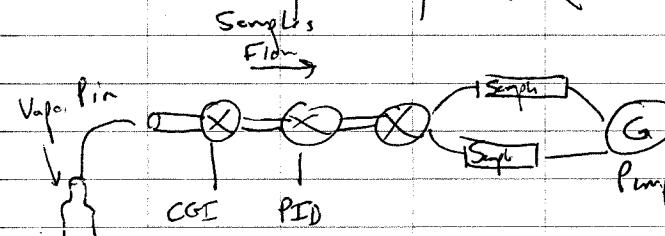
Sub-Slab Soil Vapor

MS/FR

1010 G. Rivera meets M. Sogli, F. Roemer at Blacksmith shop to open lock
G. Rivera off-site

- 1030 - Calibrate PID f w/ 100ppm Isobutylene Gas
- Calibrate CGI w/ O₂ 18 ppm, LEL 2.5%, H₂S 25 ppm, CO 100 ppm

• Build Volving a Tubing f ~~soil~~^m soil Vapor



1100 Set-up to collect sample at [SV-07-01]
3 CV's = 3460 cm³

Stabilized parameters:

PID: 82.6 ppm, CO-0 ppm, LEL=0%, H₂S: 0.0 ppm O₂: 11.4 ppm
Sample collected at 1135 Vol. 1.0L

- PID reading was high, but consistent, checked w/ rental PID, read 0 ppm.

11/2/2016 Sub-Slab Soil Vapors

MS/FR

- Phone call to E. Mazzillo

- she says to use rental PID from now on.

- Calibration rental PID = 10ppm Isobutylene Gas

1200 Lunch

1240 F. Rocker offsite to INTERA office for supplies

Setup to collect sample at SV-07-023CV's: 346 cm³

Stabilized parameters:

PID: 1.4 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0 ppm
O₂: 12.1 ppm, Vol: 1.0L

Sample collected at 1232

1240 F. Rocker onsite

MS

Setup to collect vapor sample at SV-07-03003CV's: 346 cm³SV-07-041

Stabilized Parameters

PID: 1.5 ppm, CO: 0 ppm, LEL: 0 ppm, H₂S: 0 ppm
O₂: 14.0 ppm, Vol: 1.0L

Sample Collected at 1259

1300 Setup to collect vapor sample at SV-07-033CV's: 346 cm³

Stabilized Parameters:

11/2/2016 Sub-Slab Soil Vapor

MS/FR

cont: Stabilized parameters

PID: 1.7 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0 ppm
O₂: 14.0 ppm, Vol: 1.0L

Sample collected at 1321

1330 Lock-up Blacksmith Shop

Move to TenterShop

1340 Set up to collect soil vapor sample at SV-08-053CV's: 346 cm³

Stabilized parameters:

PID: 2.0 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0 ppm
O₂: 13.5 ppm, Vol: 1.0L

Sample Collected at 1352

1400 Set up to collect soil vapor sample at SV-08-063CV's: 346 cm³

Stabilized Parameters:

PID: 2.0 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0 ppm
O₂: 11.0 ppm, Vol: 1.0L

Sample Collected at 1415

1430 Set up to collect SV sample at SV-08-02

11/12/2016

Sub-Slab Soil Vapor

MS/FR

(SV-08-02)

cont.: 3CV's: 346 cm³

Stabilized Parameters:

PID: —, CO: 0 ppm, LEL: 0%, H₂S: 0 ppm
O₂: 14.4 ppm, Vol: 1.0L

Sample collected at 1450

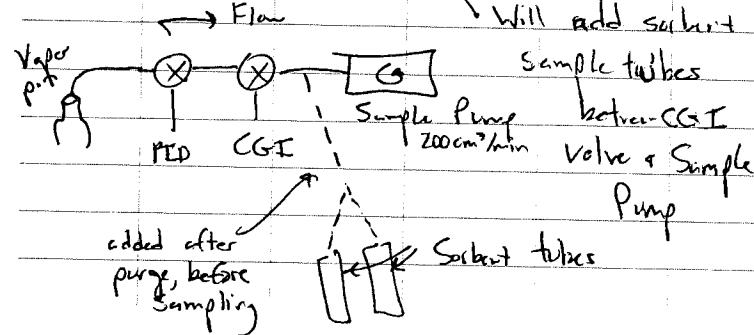
- Note: low flow from well caused PID pump to stall. Stabilized O₂ readings indicated well was purged, therefore no PID reading taken.

1450 Set-up to collect SV Sample at SV-08-01
3CV's 346 cm³

Not able to get enough flow from well,
PID pump stalls out.

Phone call w/ E. Marcella

Plan to use sample pump to
pull from well while sampling PID, CGI
on side outlet valves.



11/12/2016

Sub-Slab Soil Vapor

MS/FR

1330 ^{MS} Ream Pull vapor pin

Ream out 5/8" hole

Set Pin

Will let well sit for 24 hours prior to sampling

1600 Set-up to collect SV sample at SV-08-09
3CV's: 346 cm³

Stabilized Parameters:

PID: 1.4 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0 ppm
O₂: 12.8 ppm, Vol: 0.8L

Sample collected at 1636

1640 Set-up to collect SV Sample at SV-08-10
3CV's: 346 cm³

Stabilized Parameters:

PID: 1.1.2 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0 ppm
O₂: 13.7 ppm Vol: 0.8L

Sample Collected at 1656

1710 Secure Gate to Tender Shop + N. Railyard
Entrance (15th Street)

1715 M. Sofy, F. Rucker off-site

11/13/16 Sub-Slab Soil Vapors

MS/FR

0755 M. Sapp, Flecker onsite at Wheels Museum
Met Dave to access Museum to Sample
3x Vapor Pin Locations

- TGS/GSM, Calibration CGT: H₂S: 25ppm, CO: 10ppm, O₂: 25%

- Objective: Continue collecting Soil Vapors
Samples from 12 remaining
Vapor pin locations.

- Start in Wheels Museum (3x)
- Move to Machine Shop (6x)

0820 Set up to collect soil vapor sample at [SV-03] $\text{CV}_{\frac{1}{3}}$
3 CV-s, 346 cm³ (1 min 45 sec purge)
at 0.2 L/min

Stabilized Parameters:

PID: 0.0ppm, CO: 0ppm, LEL: 0%, H₂S: 0.0ppm
O₂: 20.0ppm, Vol: 0.8L

Sample Collected at 0941

0840 Phone call to E. Marcell to inform her
of relatively higher O₂ readings in Wheels
Museum than other Parks.

11/13/16

Sub-Slab Soil Vapors

MS/FR

- We see ~16.0 ppm O₂ on the vapor wells
SV-03-01 + SV-03-03, but
~20.9 ppm O₂ in ambient air. The
consistent decrease indicates no fresh-air
invasion of samples

0850 Set up to collect soil vapor sample at [SV-03-03]
3 CV $\frac{1}{3}$, 346 mL or 1 min 45 sec at 0.2L/min
Stabilized Parameters:
PID: 0.0ppm; CO: 0ppm H₂S: 0.0ppm, LEL: 0%
O₂: 17.5 ppm Vol: 0.6L
Sample collected at 0910

0910 Set up to collect soil vapor sample at [SV-02-01]
3 CV $\frac{1}{3}$, 346 mL or 1 min 45 sec at 0.2L/min
Stabilized Parameters:
PID: 0.0ppm, CO: 0ppm, LEL: 0%, H₂S: 0.0ppm
O₂: 16.2ppm, Vol: 0.6L
Sample collected at 0926.

0925 Return to collect Sample (Soil Vapors) at SV-01-01
- Perform 3CV purge
- See Stabilized Parameters on Facing Page.

11/3/16

Sub-Slab Soil Vapor

MS/FR

1010 Met w/ G. Rivera, he opens N. Gate (1st St)

1015 Scout for monitoring wells, located:

MW-6

MW-8

MW-7

Could not locate MW-09 (possibly buried)

1020 Set-up to Collect SV sample at [SV-08-07]

3CV's: 346mL or 1min 45sec purge at 0.2L/min

Stabilized Parameters:

PID: 0.9 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0.0 ppm
O₂: 7.8 ppm, Vol: 0.6L

Sample Collected at: 1041

1045 Set-up to collect SV Sample at [SV-08-08]

3CV's: 346mL or 1min 45sec purge at 0.2L/min

Stabilized parameters

mg PID: 0.9 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0.0 ppm
O₂:PID: 0.7 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0 ppm
O₂: 3.6 ppm, Vol: 0.6L

Sample Collected at: 1105

11/3/16

Sub-Slab Soil Vapor

MS/FR

10

1115 Set-up to collect soil vapor sample at [SV-08-01]

- reamed well yesterday to check for blockage
since the low flow stalled out the PID pump.

- re-set pump w/ new silicon sleeve.

3CV's: 346mL or 1min 45sec at 0.2L/min

Stabilized Parameters

PID: 1.5 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0.0 ppm
O₂: 15.5 ppm, Vol: 0.8L

Sample collected at: 1120 MS 1131

1200 M. Saphy, F. Ruecker checking for Monitoring wells on South side of Railyard

- Located: MW-02, riser bend, PVC bend (scapholder)

MW-01, possibly mislocated on my
found well riser (same type as others)
on East Side of Building (siphon)

MW-03

MW-04

MW-05

1230 Lunch in Machine Shop

1245 Phone call w/ E. Marullo

11/3/16

Sub-Slab Soil Vapor

MS/FR

cont: Phon coll w/ E. Marullo
 M. Sphy, F.Roecker to conduct GW sampling
 on 9 MW's at Rail yard Tomorrow.
 E. Marullo will confirm this w/ G. Rivera (COA)

1300 Set-up to collect soil vapor sample at SV-05-01
 3CV's: 346mL, 1min 45sec purge at 0.2L/min
 Stabilized Parameters:
 PID: 1.1ppm, CO: 0ppm, LEL: 0%, H₂S: 0ppm
 O₂: 7.8ppm, Vol: 0.6L
 Sample Collected at 1322

F.Roecker set up to plug & Abandon 2x
 core wells drilled in machine shop
 w/ Concrete Mix

1325 Set up to collect soil vapor sample at SV-05-02
 3CV's: 346mL, 1min 45 sec
 Stabilized Parameters:
 PID: 0.9ppm, CO: 0ppm, H₂S: 0.0ppm (LEL: 0%)
 O₂: 0.4ppm, Vol: 1.0L
 Sample Collected at 1342

11/3/16

Sub-Slab Soil Vapor

MS/FR

1345 Set up to collect soil vapor sample at
SV-05-03

3CV's: 346mL or 1min 45sec purge at 0.2L/min
 Stabilized Parameters

PID: 0.7ppm, CO: 0ppm, LEL: 0%, H₂S: 0ppm
 O₂: 12.6ppm, Vol: 1.0L
 Sample Collected at 1410

1415 Set up to collect soil vapor sample at
SV-05-04

3CV's: 346mL or 1min 45sec purge at 0.2L/min
 Purge for 3min, Vol: 1.0L
 Stabilized Parameters:
 PID: 0.9ppm, CO: 0ppm, LEL: 0%, H₂S: 0.0ppm
 O₂: 0.0ppm

Sample collected at 1428

1435 Set up to collect soil vapor sample at SV-05-05

3CV's: 346mL or 1min 45sec purge at 0.2L/min
 Stabilized Parameters:
 PID: 0.9ppm, CO: 0ppm, LEL: 0%, H₂S: 0.0ppm
 O₂: 0.0ppm, Vol: 0.6L
 Sample Collected at 1442

11/3/16

Sub-Slab Soil Vapor

MS/FR

1450 Set up to collect soil vapor sample at
SV-05-063 CV's: 346ml = 1 min 45 sec purg
at 0.2L/min rate

Stabilized Parameters:

PID: 0.9 ppm, CO: 0 ppm, LEC: 0%

H₂SC: 0.0 ppm, O₂: 1.8 ppm, 0.6 L

Sample Collected at 1506

1500 Sort out samples by parcel #.

10x Parcel 8: Boiler Shop, Trade Shop, Flea Shop

SV-08-01 SV-08-06

SV-08-02 SV-08-07

SV-08-03 SV-08-08

SV-08-04 SV-08-09

SV-08-05 SV-08-10

6x Parcel 5: Machine Shop

SV-05-01 SV-05-02 SV-05-05

SV-05-02 SV-05-04 SV-05-06

3x Parcel 3: Stockhouse (Wheeler Museum)

SV-03-01, SV-03-02, SV-03-03

4x Parcel 7: Blacksmith Shop

SV-07-01 SV-07-03

SV-07-02 SV-07-04

11/3/16

Sub-Slab Soil Vapor

MS/FR

1530 Text to E. Marullo / J Tracy confirming
that Sub-Slab Soil Vapor Sampling
is complete1535 Phone call to G. Rivera (COA) to
confirm work complete.M. Butkew (COA) will open gates at
1st St (N. Side) to give INTERA
access for SW Sampling.

1540 M. Saphy, F. Loacker off-site

Summary:• Installed 23x vapor pins to collect sub-slab
soil vapor samples• Collected 23x soil vapor samples in 4 parcel
locations at the rallyard-list on facing page.• Sample (sorbent tubes) sampled at 200 cm³/min for
5 min (1L)

• Test for TO-17 volys

MON

11/4/16 GW Sampling

MS/FR

0755 M.Sophy, F.Rocker On-site
N. Gate open, pull-in near site off MW-09

- TGSMS

- Weather: overcast, raining, 55°F.

- Objective: 1) ^{mr} locate 9 MW's
- 2) Gauge DTW, DTB in MW's
- 3) GW Sample for VOC's 8260
EPA 504.1

0805 M.Batkus (coa) on-site.

Ar will open south gate near wheels museum
for GW sampling.

0810 F.Rocker attempts to locate MW-09

- after using metal detector & shovel
- for 20 min, no well found
- will not gauge/sample this well

- California Oakton pH 450 Water Quality Meter SpecCond: 1413 $\mu\text{S}/\text{cm}$

0830 - Begin gauging DTW / DTB using properly decontaminated Solinst O.I./Water interface

- probe + EnviroSupply Water Level Meter
- Will gauge wells on N. Side of Site,
then sample to get out of way
of filming crew.

11/4/16

GW Sampling

MS/FR

K [ft bTOC] →

Well ID	DTP	DTW	DTB	Notes
MW-09				Not located 4"
MW-08	—	26.16	46.11	0839; 2"; J-Plug OK
MW-06	—	29.44	49.28	0832; 2"; J-Plug OK
MW-07	—	26.74	44.85	0847; 2"; J-Plug OK
MW-02	—	19.10	41.34	1245; 2"; Needs J.Plug
MW-01	—	22.65	44.16	1002; 2"; J-Plug OK
MW-03	—	24.33	44.75	1008; 2"; J-Plug OK
MW-04	—	25.37	44.48	1015; 2"; J-Plug OK
MW-05	—	26.52	46.16	1024; 2"; Needs J.Plug

0850 - Completed gauging of wells on north side of site.

- Plan to collect GW samples of n. side wells to stay clear of film crew.

0855 Set-up to Collect GW sample at MW-07

- 3 CV: 9.2 gal

- Stabilized Parameters:

pH: 4.41; Temp: 18.6°C; SpecCond: 829.2 $\mu\text{S}/\text{cm}$
7.17 Vol: 9.3 gal

Sample Collected at 0912

11/18/16
MS

GW Sampling

MS/FR

0920 Setup to collect GW Sample at MW-06

• 3CV's: 11.4 gal

• Stab. Parameters:

Temp: 18.9°C; pH: 7.28; Spec Cond: 803.2 μS/cm
Vol: 11.5 gal

• Sample collected at 0947

0950 Will head to south side of site to gauge MW's, specifically to check casing diameters. If any 4" wells, we will get larger bakers from office.

1030 - Gauging of all wells complete except MW-02.
This well casing riser is damaged. We will return later today to repair, access, gauge, sample +

- M. Supply F. Rucker off-site to get ice

1045 Set-up to collect GW Sample at MW-08

• 3CV's: 39.6 gal

• Stab. Parameters:

Temp: 18.8°C, pH: 7.17; Spec Cond: 951.9 μS/cm
Vol: 40 gal

Sample collected at 1145

11/18/16
MS

GW Sampling

MS/FR

1200 Move to South Side of site
Lunch

1215 MW-02 riser pipe is bent & cement skirt is cracking up
Break off concrete around riser.

Remove riser.

Cut PVC casing (2") to ground level
INTERA will replace surface completion
at a later date (E. Marcella)

1245 Set up to collect gauge water level in MW-02

- Set up to collect GW sample at MW-02

• 3CV's: 11.4 gal

• Stabilized parameters:

Temp: 18.5°C, pH: 7.74, Spec Cond: 667.2 μS/cm
Vol: 12.0 gal

Sample collected at 1310

1315 Set up to collect GW sample at MW-01

• 3CV's: 11.1 gal

• Stabilized parameters:

Temp: 18.7°C, pH: 7.42; Spec Cond: 996.0 μS/cm
Vol: 11.5 gal

Sample collected at 1335

4
11/18/16 (GW Sampling)
MS/FR

1340 Set up to collect GW sample at [MW-03]
• 3CV's: 10.5 g-l

- Stabilized parameters:

Temp: 19.0°C, pH: 7.31, Spec. Cond: 671.2 $\mu\text{S/cm}$

Vol: 11.0 gal

Sample collected at 1402

1410 Set up to collect GW sample at [MW-04]

• 3CV's: 9.6 g-l

- Stabilized parameters:

pH: 7.18, Temp: 18.6°C, Spec Cond: 932.5 $\mu\text{S/cm}$

Vol: 10.6 g-l

Sample collected at 1427.

1435 Set up to collect GW sample at [MW-05]

• 3CV's: 9.9 g-l

- Stabilized parameters:

Temp: 18.6°C, pH: 7.05; Spec Cond: 819.5 $\mu\text{S/cm}$

Vol: 11.0 gal

Sample collected at 1500

1510 Decon all equipment.

Place GW Samples in Cooler w/Ice.

4
11/19/16 (GW Sampling)
MS/FR

• Notes:

• MW-08 has 4" casing and well vault will not properly close due to PVC casing and J-Plug. Recommend trimming PVC casing.

• MW-02 needs new surface completion well is currently exposed as PVC casing cut ~1 ft long. J-Plug is taped into place to prevent debris/water entering well. Left 2 parking cones around well for protection.

• MW-05 needs a J-Plug (missing)

1515 M. Supply, FRocker effC-site.

Summary:

• Located 8 of 9 MW's (MW-09 missing)

• Gauged fluid levels / total depth in 8 wells

• Sampled 8 wells for groundwater

• 8260 (VGC's) - unfiltered

• 504.1 (EDB) - unfiltered

• Plugged wells 3x Casing Volume + Confined
Stabilization of Water Quality Parameters
before Sampling.

11/21/16

MS

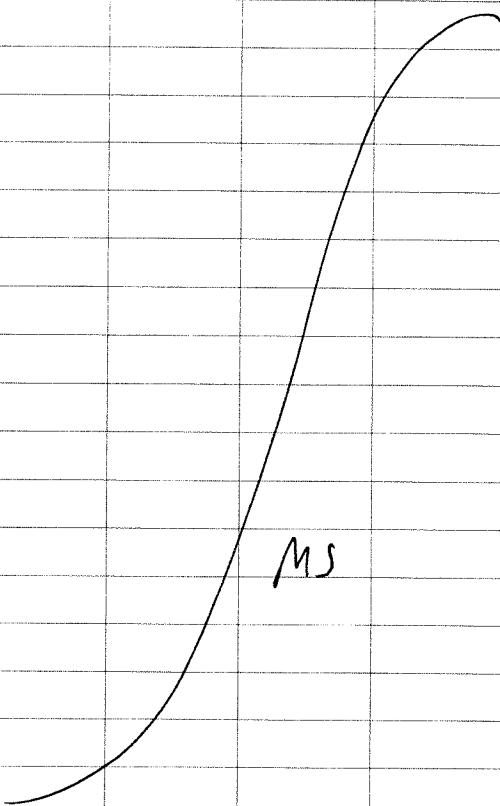
GW Sampling

MS/FR

cont:

- All purged fluids spread on impermeable surface to evaporate

MS



Vista GeoScience

**130 Capital Drive, Suite C
Golden, CO 80401-5654
Phone: 303-277-1694
Fax: 303-278-0104**

PAGE:	1	OF
DATE / TIME:	10/25/16	
PROJECT:	16117.01	
JOB NO. :		
REC / SAMP BY:		

SOIL-VAPOR SAMPLING FORM

WELL/LOC. NO. :	WELL TYPE:	<input type="checkbox"/> Monitor	<input type="checkbox"/> Extraction	<input checked="" type="checkbox"/> PRT Sys.	<input type="checkbox"/> Other
	WELL MATERIAL:	<input type="checkbox"/> PVC	<input checked="" type="checkbox"/> Poly / Implant	<input type="checkbox"/> Teflon	<input type="checkbox"/> Other

WELL OR PRT PURGING & SAMPLING LOG

PURGE VOLUME	PURGING METHOD
Casing/Tubing Inner Diameter:	<input checked="" type="checkbox"/> Landtec
<input checked="" type="checkbox"/> 1/4-inch <input type="checkbox"/> 1/2-inch <input type="checkbox"/> 3/4-inch <input type="checkbox"/> 1-inch	<input type="checkbox"/> Peristaltic pump
<input type="checkbox"/> Other _____	<input type="checkbox"/> Other - Type: _____
Total Length of Tubing/Casing: <u>7'</u>	Well Depth: _____
Number of Well Volumes to be Purged (# Vols): <u>3</u>	

PURGE VOLUME CALCULATION: (Tubing Volume/ft x length) X (# Purge Volumes) = 204 CC or Liters
(Refer to Tubing / Hole Volume Table)

PURGE TIME	PURGE RATE	ACTUAL PURGE VOLUME
Su-6 1122 START 1125 STOP 3 Su-7 1330 1333 3	ELAPSED Initial 200 L/pm Final 200 L/pm	Liters

FIELD PARAMETER MEASUREMENT

Time	Minutes	FLOW	vacuum	PID	FID	CH4	CO2	O2	Bal		
00:00		L/min		ppm	ppm	%	%	%	%		
Suc6	11:25	200		5	—	0.2	0.0	20.8	79		
				11							
Suc7	13:33	200		5	—	0	0	6.4	93.6		
				19							

Observations/Note:

SAMPLE COLLECTION

Vista GeoScience

**130 Capital Drive, Suite C
Golden, CO 80401-5654
Phone: 303-277-1694
Fax: 303-278-0104**

PAGE:	2	OF
DATE / TIME:	10/25/16	
PROJECT:	16117.01	
JOB NO. :		
REC / SAMP BY:		

SOIL-VAPOR SAMPLING FORM

WELL/LOC. NO. :	WELL TYPE:	<input type="checkbox"/> Monitor	<input type="checkbox"/> Extraction	<input checked="" type="checkbox"/> PRT Sys.	<input type="checkbox"/> Other
	WELL MATERIAL:	<input type="checkbox"/> PVC	<input checked="" type="checkbox"/> Poly / Implant	<input type="checkbox"/> Teflon	<input type="checkbox"/> Other

WELL OR PRT PURGING & SAMPLING LOG

SAMPLE COLLECTION

Vista GeoScience
Daily Site Safety Meeting (Tailgate Meeting) Topics Check List

Check Boxes as Completed

Location / Project Number / Client		
1100 2nd St SW Albuquerque, NM 16117,01 Inter		
Meeting Date		
10/26/16 & 10/27/16		
Utility Location Marked Number		

A. "Administrative" Topics

1. Introduce All Persons Present
2. Identify Roles & Responsibilities/Chain of Command (e.g., Client Project Manager (PM), Vista HSO/Field Operations Manager, and Sub Contractor PM)
3. Emphasize the Stop Work Authority Policy:
Anyone has the authority and obligation to stop work because of unsafe conditions
4. Identify the On-Site Person Who Fills Each Role for Client, Vista, and Each Subcontractor.
5. Identify and discuss the role of any visitors (e.g., client representatives, regulatory representatives, citizens, etc.)
6. Identify persons who require the Initial Health and Safety Plan (HASP) Training
7. Identify persons who require the Initial Site Briefing
8. Identify Any Short-Service Employees (SSE) and discuss the requirements if any present.

B. General Health and Safety Topics

1. Emphasize that the Health and Safety of Citizens and Residents Must Always be Considered First.
2. Weather forecast for the day
3. Buddy system (While lifting, moving of equipment, etc.)
4. Physical, chemical and/or biological hazards anticipated
5. PPE required
6. Air monitoring requirements
7. Site control requirements and possible hazards stemming from site hazards. (e.g. aggressive terrain, peds, traffic control)
8. Communication requirements
9. Decontamination requirements
10. Material handling requirements (place emphasis on proper lifting techniques)
11. Fire and/or explosion hazards
12. Emergency procedures including routes to hospital and escape, emergency medical treatment, medical evacuation from the site, and assembly/rally location for site workers to meet.
13. Equipment inspection requirements (Geoprobe are to be inspected daily to ensure properly working)
14. Emergency shut off for all equipment. Geoprobe rigs - all members of a field team must know the location of the kill switches and how to operate them.
15. Testing emergency shut off for all equipment. (e.g., Geoprobe rigs - kill switches must be tested daily prior to work)
16. Review refueling process of equipment. Equipment will be off and cool before refueling with proper fuel can.
17. Review out of service procedures
18. Location of first aid fire extinguisher
19. Traffic Control Plan (TCP) - TCP Requirements
20. Underground utilities confirmed marked - confirm paint on ground for suspected underground utilities

C. Specific Work To Be Conducted and Related Health and Safety Issues and Hazards

1. The Leader of Each Field Team/Work Crew Shall Describe Their Specific Scheduled Work Activities for the Day
2. Health and Safety Issues that others need to be aware of shall be discussed.

D. General Activities

1. Mid-day shared learning. (e.g., lunchtime, downtime, remobilization)
2. Conduct visual inspections of all equipment used.
3. Conduct site walkthrough with client P.M. (pertaining to site restoration, good housekeeping, and mitigating hazards)

Signatures of Safety Tailgate Meeting Attendees (Signature, Print Name, and Affiliation)

<i>JL</i>	<i>Jeff Casper</i>	<i>VGS</i>
<i>JL</i>	<i>Trevor Lawson</i>	<i>VGS</i>
<i>JL</i>	<i>Lynda Price</i>	<i>INTERA</i>
<i>JL</i>	<i>Jeff Casper</i>	<i>VGS</i>
<i>JL</i>	<i>Trevor Lawson</i>	<i>HSS</i>
<i>JL</i>	<i>Matthew T Sely</i>	<i>INTERA</i>

Vista GeoScience
Daily Site Safety Meeting (Tailgate Meeting) Topics Check List
Check Boxes as Completed

Location / Project Number / Client		
1100 2nd St. SW Albuquerque, NM		
16117.01 Interia		
Today's Date		
10/21/16 - 10/25/16		
Utility Locate Ticket Number		
A. "Administrative" Topics		
<ol style="list-style-type: none"> 1. Introduce All Persons Present 2. Identify Roles & Responsibilities/Chain of Command (e.g., Client Project Manager (PM), Vista HSO/Field Operations Manager, and Sub Contractor PM) 3. Emphasize the Stop Work Authority Policy: <i>Anyone has the authority and right to Stop Work because of Unsafe Conditions</i> 4. Identify the On-Site Person Who Fills Each Role for Client, Vista, and Each Subcontractor. 5. Identify and discuss the role of any visitors (e.g., client representatives, regulatory representatives, citizens, etc.) 6. Identify persons who require the Initial Health and Safety Plan (HASP) Training 7. Identify persons who require the Initial Site Briefing 8. Identify Any Short-Service Employees (SSE) and discuss the requirements if any present. 		
B. General Health and Safety Topics		
<ol style="list-style-type: none"> 1. Emphasize that the Health and Safety of Citizens and Residents Must Always be Considered First. 2. Weather forecast for the day 3. Buddy system (While lifting, moving of equipment, etc.) 4. Physical, chemical and/or biological hazards anticipated 5. PPE required 6. Air monitoring requirements 7. Site control requirements and possible hazards stemming from site hazards. (e.g. aggressive terrain, peds, traffic control) 8. Communication requirements 9. Decontamination requirements 10. Material handling requirements (place emphasis on proper lifting techniques) 11. Fire and/or explosion hazards 12. Emergency procedures including routes to hospital and escape, emergency medical treatment, medical evacuation from the site, and assembly/rally location for site workers to meet. 13. Equipment inspection requirements (Geoprobe are to be inspected daily to ensure properly working) 14. Emergency shut off for all equipment. Geoprobe rigs - all members of a field team must know the location of the kill switches and how to operate them. 15. Testing emergency shut off for all equipment. (e.g., Geoprobe rigs - kill switches must be tested daily prior to work) 16. Review refueling process of equipment. Equipment will be off and cool before refueling with proper fuel can. 17. Review out of service procedures 18. Location of first aid fire extinguisher 19. Traffic Control Plan (TCP) - TCP Requirements 20. Underground utilities confirmed marked - confirm paint on ground for suspected underground utilities <p style="text-align: center;"><i>Prostition Hospital</i></p>		
C. Specific Work To Be Conducted, and Related Health and Safety Issues and Hazards		
<ol style="list-style-type: none"> 1. The Leader of Each Field Team/Work Crew Shall Describe Their Specific Scheduled Work Activities for the Day 2. Health and Safety Issues that others need to be aware of shall be discussed. 		
D. Closing Activities		
<ol style="list-style-type: none"> 1. Mid-day shared learning. (e.g., lunchtime, downtime, remobilization) 2. Conduct visual inspections of all equipment used. 3. Conduct site walkthrough with client P.M. (pertaining to site restoration, good housekeeping, and mitigating hazards) 		
Signatures of Safety Tailgate Meeting Attendees - Signature, Print Name, and Affiliation		
10/24	Jeff Carroll	VGS
Tolson	Trevor Lawson	VGS
Lynne	LYNDA PRICE	INTERIA
Tolson	Trevor Lawson	VGS
Lynne	Lynde Price	INTERIA
	Jeff Carroll	VGS

STANDARD RIG EQUIPMENT PRE-PROJECT CHECKLIST			
ON HAND REQUIRED		ON HAND REQUIRED	
Description	Notes	Description	Notes
TOOLS			
MACRO CORE SAMPLING:		DT32 DUAL WALL SAMPLING:	
MC Sample Tube (45ft) (H.D.) 5'		3.25" x 5' Probe Rod	
MC Drive Head 1.5"		3.25" Expendable Point Holder	
MC Cutting Shoe		3.25" Drive Cap	
MC Cutting Shoe 1x reduced w/piston tip		3.25" Rod Grip	
MC Cutting Shoe 2 x reduced w/ piston tip		Centering Drive Cap	
GROUNDWATER SAMPLING:		3.25" Cutting Shoe	
Screen Point 16 Sampler Sheath		Window Sheath	
Screen Point 16 Drive Head 1.5		Core Catcher Retainer	
Screen Point 16 Wire Wound Screen, 4 slot		Drive Head For Window Sheath	
Screen Point 16 Screen Push Adapter		1.25" x 5' Light Weight Inner Rod	
Screen Point 16 Expendable Points		Solid Drive Tip Assembly	
Tubing Bottom Check Valve	<i>Jeff Haas</i>	3.25" Expendable Cutting Shoe Holder	
SS Mini Bailer 3 ft x 1/2"		3.25" Expendable Cutting Shoes	
Plastic 3/4" Disposable Bailers			
DT22 Dual Wall Sampling:		1.5" DRIVE RODS:	
DT22 Liner Driver Head		Five foot (5') Rods 1.5"	
2.25" x 5' Probe Rods		Drive Cap 1.5"	
2.25" Drive Cap		Pull Cap 1.5"	
2.25" Pull Cap		MC Preprobe 2" for 1.5" rod	
2.25" Rod Grip		1.5" Friction Reducer	
2" Expendable Points		Extension Rod Coupler (each)	
2.25" Expendable Point Holder		Quick Links Ext Rod Couplers (Pair)	
DT22 Cutting Shoe			
DT22 Expendable Cutting Shoe		Drill Steel (48")	
1.25" x 1 Foot Probe Rod		Carbide Drill Bit (2.5")	
DT22 Drive Bumper		Fishing Tool 1.5"	
DT22 Liner Cutter		Nylon Brush For MC Tubes	
Hook Blades for Cutter		Nylon Brush for Water Screen Sleeve	
DT22 1.25" Solid Tip		Nylon Brush for 1.5" O.D. Probe Rods	
Rod Wiper and Frame		Hand Auger (2" or 3")	
CONSUMABLE MATERIALS	Notes	GROUNDWATER SAMPLING:	Notes
Description		Screen Point 16 Expendable Drive Points	
DUAL WALL SAMPLING:		Disposable Bailers	
DT32 Dual Wall Plastic Liners (Box)		Screen Point 16 Grout Plug, PVC	
DT22 Dual Wall Plastic Liners (Box)		Roll 3/8" Tubing (500 ft roll)	
DT22 Dual Wall End Caps (Bag)		WELL INSTALLATION:	
MACRO CORE SAMPLING:	<i>Install 2</i>	3.5" x 5' Solid Stem Auger	
MC Plastic Liners (Box)		3.5" Cutting Bit Spade / Bullet	
MC Core Catcher/Spacer		3.5" Hollow Stem Drive Cap	
MC End Caps (Bag)			
GENERAL MATERIALS:		Auger Fork	
Push Broom		Auger Pins	
Dust pan & hand broom		1" Locking Well Cap and Locks	
Trowel		1" Screw On Bottom Cap	
Shovel		1" x 5' PVC Riser	<i>3 Boxes 5</i>
Traffic Cones		1" x 5' PVC Screen .010	<i>2 Boxes</i>
Roll of Caution Tape		55 gallon steel drums	
Trash bags (Box)		15/16" Socket and Drive for Drum	
Paper towels		ACCESSORIES:	
Roll of Caution Tape		5 Sand - Bags	
Teflon Tape, Roll	<i>7m Jm</i>	Concrete Patch - Bags	
Liquinox, Bottle		Asphalt Patch with Hammer- Bags	
5-gallon buckets Clean		Bentonite Bags	
TECHNICIAN SIGNATURE:		GEO KIT:	
Date of Inventory:		20 Sample Labels	
<i>8 23 16</i>		3 Non Haz Drum Labels	
Project Name: <i>16117.01 Intra</i>		1 Marking Paint (Can)	
Project Number:		8 30 mL VOA's	
Signature: <i>[Signature]</i>		1 Teflon Tape (Roll)	
		20 Marking Flags	
		1 Small Ziploc Bags for Samples (Box)	
		1 A bag of Ear Plugs	
		1 A bag of Nitrile Gloves L	
		2 Sharpie Pens	
		1 Hacksaw	

**GEOPROBE DIRECT PUSH MACHINE
INSPECTION FORM: (SONIC RIG N/A)**

COMPANY NAME: Vista Geosystems

LOCATION: 1100 2nd ST SW ALB, NM

DATE OF INSPECTION:

10/24/16 - 10/28/16

EQUIPMENT INFORMATION				CREW INFORMATION			JOB INFORMATION				
UNIT NUMBER	CURRENT HOURS	NEXT SERVICE HOUR	UNIT SERIAL #	SUPERVISOR:			JOB NAME:				
VGS-23				Jeffreadel			16117.01				
INSPECTOR:	GEOPROBE MODEL #										
ENGINE COMPARTMENT		Y	N	NA	COMMENTS	CONTROL PANEL		Y	N	NA	COMMENTS
ENGINE OIL LEVEL	ADD	X	FULL			CLEANLINESS		✓			
ENGINE COOLANT LEVEL	ADD	X	FULL			MD3 DISPLAY CONDITION & MESSAGES				✓	
HYD. OIL LEVEL (SITE GLASS)	BTM	X	TOP			ALARM / WARNING LIGHT OPERATION		✓			
HYD. DRAIN PLUG CAP IN PLACE		✓				MANUAL LEVERS IN NEUTRAL AND SECURE		✓			
HYD. FILL CAP INSTALLED	✓	✓		fell off once		ROCKER SWITCHES, CONDITION, OPERATION		✓			RPM doesn't work
RADIATOR CLEANLINESS	✓					AUX FLOW CONTROLS		✓			
MASTER DISCONNECT SECURE, CLEAN, FUNCTIONING	✓					GAUGES WORKING		✓			
BATTERY CLEAN AND SECURE	✓					ENABLE SWITCH OPERATION AND CONDITION		✓			
FUSE AND RELAY BOX CLEAN, SECURE, CLOSED	✓					OVERLAY CONDITION AND READABILITY		✓			
BELT IN GOOD CONDITION AND PROPER TENSION	✓					HYDRAULICS FREE OF LEAKS AND SECURE		✓	✓		foot extend extet not working
AIR FILTER COVER SECURE, ORIENTATED CORRECTLY	✓	✓		MISSING TOP piece		ELECTRICAL HARNESS SECURITY & CONDITION		✓			
FUEL CAP INSTALLED	✓					FOOT					
HYDRAULIC OIL COOLER CLEAN	✓					SLIDES ADJUSTED, SECURE, LUBRICATED		✓			
HYD LINES OVERALL CONDITION AND FREE OF LEAKS	✓	X		scratches		HYDRAULICS FREE OF LEAKS AND SECURE		✓			
WIRING SECURE, CONDITION, FRAYS, CORROSION, ETC	✓					CHECK FOR LOOSE OR MISSING FASTENERS		✓			
MACHINE CHASSIS						GH HAMMER CHARGED, SECURE, CONDITION		✓	✓		little loose (lockette)
TRACKS' CONDITION AND CORRECT TENSION	✓					PULL LATCH SECURITY AND CONDITION		✓			
GREASE CHASSIS AS REQD	✓					ELECTRICAL HARNESS SECURITY & CONDITION		✓			
INSPECT HYD CYLINDERS FOR LEAKS	✓					E- STOP PULL CABLE ADJUSTMENT, OPERATION		✓			
HYD LINES OVERALL CONDITION AND FREE OF LEAKS	✓					MACHINE ACCESSORIES					
HYD MANIFOLDS FOR SECURITY, LEAKS, DAMAGE	✓					MOYNO PUMP OR OTHER					
EMERGENCY STOPS CONDITION & OPERATION	✓					DROP HAMMER SECURE, HYD HOSES, LUBRICATED				✓	
FIRE EXTINGUISHER	✓					WIRE ROPE CONDITION, SECURE, LAY ON DRUM		✓			
STROBE LIGHT OPERATION		✓				WINCH MAST SHIVES SECURED ROTATING FREELY		✓			
WIRING SECURE, CONDITION, CORROSION, ETC	✓					MAST CYLINDER UPPER ROLL PIN INSTALLED		✓			
CHECK FOR LOOSE OR MISSING FASTENERS	✓					WINCH DRUM BACKING PLATE / TENSIONER		✓			
FRAME FOR DAMAGE, CRACKS, ETC	✓					WINCH SAFETY HOOK CONDITION, & OPERATION		✓			
REMOTE SYSTEMS						EXTRUDER INSTALLATION CORRECT AND SECURE		✓			
WIRELESS TX CONDITION, BATTERIES, OPERATION	✓					PRESSURE WASHER INSTL CORRECT AND SECURE		✓			
WIRELESS RX SECURITY, CONDITION, OPERATION		✓				RACKS, TRAYS, & ETC INSTL CORRECT & SECURE		✓			
TETHER REMOTE - CABLE, BOX, CONDITION		✓				SAFETY CAGE, CONDITION, OPERATION		✓			
REMOTE E-STOP FUNCTIONALITY	✓										

Site Location: COA Railyard Drilling Co: Vista Geosurve Soil Boring Log (Field) Depth to Water (ft): _____ Boring No.: SB-4
 Drilling Method: Direct push Driller: J. Zajdel Total Depth (ft): 10 Date: 10/25/14 Drilling Start: 1150
 Drilling Equipment: Geoprobe Northing: Easting: Borehole Diameter: Date: 1156 Drilling Finish: 1156

Depth in Feet (BLS)	USCS	Descriptor	Soil Type	Color	Partical Size	Grading	Angularity/shape	Density	Plasticity	Moisture	Odor	PID/FID	% Rec.	Sample No./Int.	Comments	
															Split Spoon Length:	
0'-3'		Sandy	SAND	10YR	very fine	poor	angular	(sand or gravel) very loose	non-plastic	dry	none	0.0	0-5			
		Clayey	CLAY	2/1 black	fine	well	subangular	loose	slightly plastic	moist	organic		50			
		Silty	SILT	+ 10YR	medium		subrounded	dense	plastic	wet	hydrocarbon					
		Gravelly	GRAVEL	5/1 gray	coarse		rounded	very dense	very plastic							
3.5		Sandy	SAND	10YR	very fine	poor	angular	(sand or gravel) very loose	non-plastic	dry	none					
		Clayey	CLAY	4/3	fine	well	subangular	loose	slightly plastic	moist	organic					
		Silty	SILT	brown	medium		subrounded	dense	(plastic)	wet	hydrocarbon	0.0				
		Gravelly	GRAVEL		coarse		rounded	very dense	very plastic							
5'		Sandy	SAND	10YR	very fine	poor	angular	(sand or gravel) very loose	non-plastic	dry	none		5-10		Clay w/ some fines	
10		Clayey	CLAY	4/3	fine	well	subangular	loose	slightly plastic	moist	organic		50			
		Silty	SILT	brown	medium		subrounded	dense	(plastic)	wet	hydrocarbon	0.5			5-10 (5-10)	
		Gravelly	GRAVEL		coarse		rounded	very dense	very plastic						C1157	
		Sandy	SAND		very fine	poor	angular	(sand or gravel) very loose	non-plastic	dry	none					
		Clayey	CLAY		fine	well	subangular	loose	slightly plastic	moist	organic					
		Silty	SILT		medium		subrounded	dense	plastic	wet	hydrocarbon					
		Gravelly	GRAVEL		coarse		rounded	very dense	very plastic							

Site Location: COA Railyard Drilling Co: Vista Geosciences

**Soil Boring Log
(Field)**

Depth to Water (ft): _____

Boring No.: SB-7

Drilling Method: Direct push Driller: J. Zajdel

Total Depth (ft): 10

Date: 10/25/14 Drilling Start: 1210

Drilling Equipment: Geoprobe Northing: _____ Easting: _____

Borehole Diameter: _____ Date: _____ Drilling Finish: 1215

Sample Method: _____

Logger: 16

Split Spoon Length:

Coord. System

Depth in Feet (BLS)	USCS	Descriptor	Soil Type	Color	Partical Size	Grading	Angularity/shape	Density	Plasticity	Moisture	Odor	PID/FID	% Rec.	Sample No./Int.	Comments
0'- 2'		Sandy	SAND	10YR 7/5	very fine	poor	angular	(sand or gravel) very loose	non-plastic	dry	none	0.5			Appears to be fill.
		Clayey	CLAY	7/5	fine	well	subangular	loose	slightly plastic	moist	organic	80			
		Silty	SILT	v- pink brown	medium		subrounded	dense	plastic	wet	hydrocarbon	1.0			
		Gravelly	GRAVEL	brown	coarse		rounded	very dense	very plastic						
2'- 2.5'		Sandy	SAND	10YR 7/1	very fine	poor	angular	(sand or gravel) very loose	non-plastic	dry	none				
		Clayey	CLAY	7/1	fine	well	subangular	loose	slightly plastic	moist	organic				
		Silty	SILT	black	medium		subrounded	dense	plastic	wet	hydrocarbon				
		Gravelly	GRAVEL		coarse		rounded	very soft	very plastic						
2.5'- 7'		Sandy	SAND	10YR 7/1	very fine	poor	angular	(sand or gravel) very loose	non-plastic	dry	none				
		Clayey	CLAY	7/1	fine	well	subangular	loose	slightly plastic	moist	organic	5-10			
		Silty	SILT	v- gray	medium		subrounded	dense	plastic	wet	hydrocarbon	75			
		Gravelly	GRAVEL	gray	coarse		rounded	very soft	very plastic						
7'- 10'		Sandy	SAND	10YR 3/2	very fine	poor	angular	(sand or gravel) very loose	non-plastic	dry	none				SB-7 (5-10) @ 1220
		Clayey	CLAY	v. dark brown	fine	well	subangular	loose	slightly plastic	moist	organic	5-10			
		Silty	SILT	grayish brown	medium		subrounded	dense	plastic	wet	hydrocarbon	9.9			
		Gravelly	GRAVEL	brown	coarse		rounded	very soft	very plastic						

Site Location: _____ Drilling Co: _____

**Soil Boring Log
(Field)**

Depth to Water (ft): _____

Boring No.: SB-7

Drilling Method: _____ Driller: _____

Total Depth (ft): _____

Date: 10/25/16 Drilling Start: 1200

Drilling Equipment: _____ Northing: _____ Easting: _____

Borehole Diameter: _____

Date: _____ Drilling Finish: 1215

Sample Method: _____

Logger: _____

Split Spoon Length: _____

Coord. System

Depth in Feet (BLS)	USCS	Descriptor	Soil Type	Color	Partical Size	Grading	Angularity/shape	Density	Plasticity	Moisture	Odor	PID/FID	% Rec.	Sample No./Int.	Comments
9'		Sandy Clayey Silty Gravelly	SAND CLAY SILT GRAVEL	10YR 5/3 brown	very fine fine medium coarse	poor well	angular subangular subrounded rounded	(sand or gravel) very loose loose dense very dense (silt or clay) very soft soft hard very hard	non-plastic slightly plastic plastic very plastic	dry moist wet hydrocarbon	none organic hydrocarbon				
10'		Sandy Clayey Silty Gravelly	SAND CLAY SILT GRAVEL		very fine fine medium coarse	poor well	angular subangular subrounded rounded	(sand or gravel) very loose loose dense very dense (silt or clay) very soft soft hard very hard	non-plastic slightly plastic plastic very plastic	dry moist wet hydrocarbon	none organic hydrocarbon				
		Sandy Clayey Silty Gravelly	SAND CLAY SILT GRAVEL		very fine fine medium coarse	poor well	angular subangular subrounded rounded	(sand or gravel) very loose loose dense very dense (silt or clay) very soft soft hard very hard	non-plastic slightly plastic plastic very plastic	dry moist wet hydrocarbon	none organic hydrocarbon				PID for SV = 1.9 ppm
		Sandy Clayey Silty Gravelly	SAND CLAY SILT GRAVEL		very fine fine medium coarse	poor well	angular subangular subrounded rounded	(sand or gravel) very loose loose dense very dense (silt or clay) very soft soft hard very hard	non-plastic slightly plastic plastic very plastic	dry moist wet hydrocarbon	none organic hydrocarbon				
		Sandy Clayey Silty Gravelly	SAND CLAY SILT GRAVEL		very fine fine medium coarse	poor well	angular subangular subrounded rounded	(sand or gravel) very loose loose dense very dense (silt or clay) very soft soft hard very hard	non-plastic slightly plastic plastic very plastic	dry moist wet hydrocarbon	none organic hydrocarbon				

Site Location: Co A Railyard Drilling Co: Geoscience

Vista

**Soil Boring Log
(Field)**

Depth to Water (ft): _____

Boring No.: SB-8

Drilling Method: Direct Push Driller: J. Zajdel

Total Depth (ft): 10

Date: 10/25/14 Drilling Start: 1350

Drilling Equipment: Geoprobe Northing: _____ Easting: _____

Borehole Diameter: _____

Date: _____ Drilling Finish: 1355

Sample Method: Logger: up

Split Spoon Length:

Coord. System

Depth in Feet (BLS)	USCS	Descriptor	Soil Type	Color	Partical Size	Grading	Angularity/shape	Density	Plasticity	Moisture	Odor	PID/FID	% Rec.	Sample No./Int.	Comments
0'- 2.5'		Sandy Clayey Silty Gravelly	SAND CLAY SILT GRAVEL	10/4F 2/1 black + 10/4F 7/1 gray	very fine fine medium coarse	poor well	angular subangular subrounded rounded	(sand or gravel) very loose loose dense very dense	non-plastic slightly plastic plastic very plastic	dry moist wet hydrocarbon	none	0.5 0.0	84		
2.5' 4.5'		Sandy Clayey Silty Gravelly	SAND CLAY SILT GRAVEL	10/4F 6/4 lt. yellowish brown	very fine fine medium coarse	poor well	angular subangular subrounded rounded	(sand or gravel) very loose loose dense very dense	non-plastic slightly plastic plastic very plastic	dry moist wet hydrocarbon	none	5-10 0-1		SB-8 (5-10) @ 1356	
4.5'- 9'		Sandy Clayey Silty Gravelly	SAND CLAY SILT GRAVEL	10/4F 5/3 brown	very fine fine medium coarse	poor well	angular subangular subrounded rounded	(sand or gravel) very loose loose dense very dense	non-plastic slightly plastic plastic very plastic	dry moist wet hydrocarbon	none	5-10 80			
9'-10'		Sandy Clayey Silty Gravelly	SAND CLAY SILT GRAVEL	10/4F 6/4 lt. yellowish brown	very fine fine medium coarse	poor well	angular subangular subrounded rounded	(sand or gravel) very loose loose dense very dense	non-plastic slightly plastic plastic very plastic	dry moist wet hydrocarbon	none				

SV PID = 4.5 ppm

Site Location: COT Railyard Drilling Co: Viste Geoscience Soil Boring Log
 (Field) Depth to Water (ft): _____ Boring No.: SB-9
 Drilling Method: Direct push (soil) Driller: J. Zajdel Total Depth (ft): 10 Date: 10/25/14 Drilling Start: 1605
 Drilling Equipment: Geoprobe Northing: _____ Easting: _____ Borehole Diameter: _____ Date: _____ Drilling Finish: 1610

Depth in Feet (BLS)	USCS	Descriptor	Soil Type	Color	Partical Size	Grading	Angularity/shape	Density	Plasticity	Moisture	Odor	PID/FID	% Rec.	Sample No./Int.	Split Spoon Length:		Coord. System		Comments	
0-1.5		Sandy	SAND	254	very fine	poor	angular	(sand or gravel) very loose	non-plastic	dry	none	0.5								
		Clayey	CLAY	251	fine	well	subangular	loose dense	slightly plastic	moist	organic	1.2								
		Silty	SILT	B1K	medium		subrounded	very dense	plastic	wet	hydrocarbon	1.2								
		Gravelly	GRAVEL		coarse		rounded	(silt or clay) very soft soft hard very hard	very plastic											
1.5-4		Sandy	SAND	1042	very fine	poor	angular	(sand or gravel) very loose	non-plastic	dry	none	0.5								
		Clayey	CLAY	512	fine	well	subangular	loose dense	slightly plastic	moist	organic	1.2								
		Silty	SILT	51015	medium		subrounded	very dense	plastic	wet	hydrocarbon	1.2								
		Gravelly	GRAVEL	brown	coarse		rounded	(silt or clay) very soft soft hard very hard	very plastic											
4-9.5		Sandy	SAND	1042	very fine	poor	angular	(sand or gravel) very loose	non-plastic	dry	none	5-10								
		Clayey	CLAY	312	fine	well	subangular	loose dense	slightly plastic	moist	organic	1.2								
		Silty	SILT	V. dark	medium		subrounded	very dense	plastic	wet	hydrocarbon	1.2								
		Gravelly	GRAVEL	310	coarse		rounded	(silt or clay) very soft soft hard very hard	very plastic											
9.5-10		Sandy	SAND	1072	very fine	poor	angular	(sand or gravel) very loose	non-plastic	dry	none	5-10								
		Clayey	CLAY	714	fine	well	subangular	loose dense	slightly plastic	moist	organic	1.2								
		Silty	SILT	V. brown	medium		subrounded	very dense	plastic	wet	hydrocarbon	1.2								
		Gravelly	GRAVEL	710	coarse		rounded	(silt or clay) very soft soft hard very hard	very plastic											

$$SV \text{ PID} = 0,0$$

Appendix B
Laboratory Analytical Report for Soil



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 22, 2016

Joseph Tracy
Intera, Inc.
6000 Uptown Boulevard, NE Suite 220
Albuquerque, NM 87110
TEL: (505) 246-1600
FAX (505) 246-2600

RE: COA Railyards OrderNo.: 1610E23

Dear Joseph Tracy:

Hall Environmental Analysis Laboratory received 33 sample(s) on 10/28/2016 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued November 15, 2016.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-001**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	8.6	1.8	9.7	J	mg/Kg	1	11/1/2016 2:57:59 PM	28372
Motor Oil Range Organics (MRO)	ND	49	49		mg/Kg	1	11/1/2016 2:57:59 PM	28372
Surr: DNOP	98.4	0	70-130		%Rec	1	11/1/2016 2:57:59 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.035	0.25		mg/Kg	1	11/6/2016 5:04:33 PM	28374
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/6/2016 5:04:33 PM	28374
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Acenaphthylene	ND	0.034	0.25		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Acenaphthene	ND	0.031	0.25		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Phenanthrene	ND	0.0016	0.015		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Fluoranthene	ND	0.0033	0.020		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Pyrene	ND	0.0034	0.025		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Benz(a)anthracene	ND	0.00050	0.010		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Chrysene	ND	0.0014	0.010		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Benzo(b)fluoranthene	ND	0.00071	0.010		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Benzo(k)fluoranthene	ND	0.00040	0.010		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Benzo(a)pyrene	ND	0.00040	0.010		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Dibenz(a,h)anthracene	ND	0.00050	0.010		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Benzo(g,h,i)perylene	ND	0.00060	0.010		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Indeno(1,2,3-cd)pyrene	ND	0.00080	0.010		mg/Kg	1	11/6/2016 5:04:33 PM	28374
Surr: Benzo(e)pyrene	42.3	0	27.4-110		%Rec	1	11/6/2016 5:04:33 PM	28374
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.98	2.4		mg/Kg	1	10/31/2016 11:04:42 AM	28363
Arsenic	3.4	0.87	2.4		mg/Kg	1	10/31/2016 11:04:42 AM	28363
Chromium	5.7	0.092	0.29		mg/Kg	1	10/31/2016 11:04:42 AM	28363
Iron	8800	37	120		mg/Kg	50	10/31/2016 1:30:42 PM	28363
Lead	4.7	0.17	0.24		mg/Kg	1	10/31/2016 11:04:42 AM	28363
Manganese	49	0.052	0.098		mg/Kg	1	10/31/2016 11:04:42 AM	28363
Thallium	ND	0.75	2.4		mg/Kg	1	10/31/2016 11:04:42 AM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.015	0.019		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Toluene	ND	0.0023	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Ethylbenzene	ND	0.0032	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.012	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,2,4-Trimethylbenzene	ND	0.0028	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,3,5-Trimethylbenzene	ND	0.0028	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-001**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM**Client Sample ID:** SB-1 (9-10)**Collection Date:** 10/24/2016 3:10:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.010	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,2-Dibromoethane (EDB)	ND	0.0027	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Naphthalene	ND	0.0060	0.077		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1-Methylnaphthalene	ND	0.0086	0.15		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
2-Methylnaphthalene	ND	0.0083	0.15		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Acetone	ND	0.050	0.58		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Bromobenzene	ND	0.0031	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Bromodichloromethane	ND	0.0022	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Bromoform	ND	0.0047	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Bromomethane	0.040	0.014	0.12	J	mg/Kg	1	10/31/2016 11:47:34 AM	S38351
2-Butanone	0.035	0.022	0.39	J	mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Carbon disulfide	ND	0.013	0.39		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Carbon tetrachloride	ND	0.0025	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Chlorobenzene	ND	0.0031	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Chloroethane	ND	0.0077	0.077		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Chloroform	ND	0.0029	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Chloromethane	0.014	0.0034	0.12	J	mg/Kg	1	10/31/2016 11:47:34 AM	S38351
2-Chlorotoluene	ND	0.0028	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
4-Chlorotoluene	ND	0.0034	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
cis-1,2-DCE	ND	0.0022	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
cis-1,3-Dichloropropene	ND	0.0036	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,2-Dibromo-3-chloropropane	ND	0.012	0.077		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Dibromochloromethane	ND	0.0035	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Dibromomethane	ND	0.0033	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,2-Dichlorobenzene	ND	0.0034	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,3-Dichlorobenzene	ND	0.0032	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,4-Dichlorobenzene	ND	0.0048	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Dichlorodifluoromethane	ND	0.012	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,1-Dichloroethane	ND	0.0021	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,1-Dichloroethene	ND	0.013	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,2-Dichloropropane	ND	0.0032	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,3-Dichloropropane	ND	0.0044	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
2,2-Dichloropropane	ND	0.0022	0.077		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,1-Dichloropropene	ND	0.0031	0.077		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Hexachlorobutadiene	ND	0.0047	0.077		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
2-Hexanone	ND	0.021	0.39		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Isopropylbenzene	ND	0.0033	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
4-Isopropyltoluene	ND	0.0035	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
4-Methyl-2-pentanone	ND	0.011	0.39		mg/Kg	1	10/31/2016 11:47:34 AM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-001**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM**Client Sample ID:** SB-1 (9-10)**Collection Date:** 10/24/2016 3:10:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.014	0.011	0.12	J	mg/Kg	1	10/31/2016 11:47:34 AM	S38351
n-Butylbenzene	ND	0.0034	0.12		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
n-Propylbenzene	ND	0.0030	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
sec-Butylbenzene	ND	0.0053	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Styrene	ND	0.0034	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
tert-Butylbenzene	ND	0.0032	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0037	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0062	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Tetrachloroethene (PCE)	ND	0.0032	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
trans-1,2-DCE	ND	0.011	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
trans-1,3-Dichloropropene	ND	0.0056	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,2,3-Trichlorobenzene	ND	0.0058	0.077		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,2,4-Trichlorobenzene	ND	0.0041	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,1,1-Trichloroethane	ND	0.0024	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,1,2-Trichloroethane	ND	0.0045	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Trichloroethene (TCE)	ND	0.0041	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Trichlorofluoromethane	ND	0.0029	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
1,2,3-Trichloropropane	ND	0.0067	0.077		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Vinyl chloride	ND	0.0032	0.039		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Xylenes, Total	ND	0.0073	0.077		mg/Kg	1	10/31/2016 11:47:34 AM	S38351
Surr: Dibromofluoromethane	102	70-130		%Rec	1	10/31/2016 11:47:34 AM	S38351	
Surr: 1,2-Dichloroethane-d4	99.2	70-130		%Rec	1	10/31/2016 11:47:34 AM	S38351	
Surr: Toluene-d8	93.1	70-130		%Rec	1	10/31/2016 11:47:34 AM	S38351	
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	10/31/2016 11:47:34 AM	S38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.58	3.9		mg/Kg	1	10/31/2016 11:47:34 AM	GS3835
Surr: BFB	99.3	0	70-130		%Rec	1	10/31/2016 11:47:34 AM	GS3835

Analyst: DJF

Analyst: DJF

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-002**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	ND	1.8	9.5		mg/Kg	1	11/1/2016 3:19:44 PM	28372
Motor Oil Range Organics (MRO)	ND	48	48		mg/Kg	1	11/1/2016 3:19:44 PM	28372
Surr: DNOP	90.0	0	70-130		%Rec	1	11/1/2016 3:19:44 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.034	0.25		mg/Kg	1	11/6/2016 5:33:46 PM	28374
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/6/2016 5:33:46 PM	28374
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/6/2016 5:33:46 PM	28374
Acenaphthylene	ND	0.033	0.25		mg/Kg	1	11/6/2016 5:33:46 PM	28374
Acenaphthene	ND	0.030	0.25		mg/Kg	1	11/6/2016 5:33:46 PM	28374
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/6/2016 5:33:46 PM	28374
Phenanthrene	0.0032	0.0016	0.015	J	mg/Kg	1	11/6/2016 5:33:46 PM	28374
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/6/2016 5:33:46 PM	28374
Fluoranthene	ND	0.0033	0.020		mg/Kg	1	11/6/2016 5:33:46 PM	28374
Pyrene	ND	0.0034	0.025		mg/Kg	1	11/6/2016 5:33:46 PM	28374
Benz(a)anthracene	ND	0.00049	0.0099		mg/Kg	1	11/6/2016 5:33:46 PM	28374
Chrysene	0.0017	0.0014	0.0099	J	mg/Kg	1	11/6/2016 5:33:46 PM	28374
Benzo(b)fluoranthene	ND	0.00070	0.0099		mg/Kg	1	11/6/2016 5:33:46 PM	28374
Benzo(k)fluoranthene	0.00049	0.00039	0.0099	J	mg/Kg	1	11/6/2016 5:33:46 PM	28374
Benzo(a)pyrene	0.00049	0.00039	0.0099	J	mg/Kg	1	11/6/2016 5:33:46 PM	28374
Dibenz(a,h)anthracene	ND	0.00049	0.0099		mg/Kg	1	11/6/2016 5:33:46 PM	28374
Benzo(g,h,i)perylene	0.00074	0.00059	0.0099	J	mg/Kg	1	11/6/2016 5:33:46 PM	28374
Indeno(1,2,3-cd)pyrene	0.0012	0.00079	0.0099	J	mg/Kg	1	11/6/2016 5:33:46 PM	28374
Surr: Benzo(e)pyrene	80.4	0	27.4-110		%Rec	1	11/6/2016 5:33:46 PM	28374
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.98	2.4		mg/Kg	1	10/31/2016 11:08:16 AM	28363
Arsenic	1.2	0.86	2.4	J	mg/Kg	1	10/31/2016 11:08:16 AM	28363
Chromium	2.5	0.092	0.29		mg/Kg	1	10/31/2016 11:08:16 AM	28363
Iron	4500	37	120		mg/Kg	50	10/31/2016 1:32:13 PM	28363
Lead	2.1	0.17	0.24		mg/Kg	1	10/31/2016 11:08:16 AM	28363
Manganese	33	0.052	0.097		mg/Kg	1	10/31/2016 11:08:16 AM	28363
Thallium	ND	0.75	2.4		mg/Kg	1	10/31/2016 11:08:16 AM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.015	0.019		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Toluene	ND	0.0023	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Ethylbenzene	ND	0.0031	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.012	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,2,4-Trimethylbenzene	ND	0.0028	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,3,5-Trimethylbenzene	ND	0.0028	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-002**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.010	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,2-Dibromoethane (EDB)	ND	0.0027	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Naphthalene	ND	0.0060	0.077		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1-Methylnaphthalene	ND	0.0085	0.15		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
2-Methylnaphthalene	ND	0.0082	0.15		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Acetone	ND	0.050	0.58		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Bromobenzene	ND	0.0031	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Bromodichloromethane	ND	0.0022	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Bromoform	ND	0.0047	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Bromomethane	0.052	0.014	0.12	J	mg/Kg	1	10/31/2016 1:14:05 PM	S38351
2-Butanone	ND	0.022	0.38		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Carbon disulfide	ND	0.013	0.38		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Carbon tetrachloride	ND	0.0025	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Chlorobenzene	ND	0.0031	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Chloroethane	ND	0.0077	0.077		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Chloroform	ND	0.0029	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Chloromethane	0.014	0.0034	0.12	J	mg/Kg	1	10/31/2016 1:14:05 PM	S38351
2-Chlorotoluene	ND	0.0028	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
4-Chlorotoluene	ND	0.0034	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
cis-1,2-DCE	ND	0.0022	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
cis-1,3-Dichloropropene	ND	0.0035	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,2-Dibromo-3-chloropropane	ND	0.012	0.077		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Dibromochloromethane	ND	0.0035	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Dibromomethane	ND	0.0033	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,2-Dichlorobenzene	ND	0.0033	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,3-Dichlorobenzene	ND	0.0031	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,4-Dichlorobenzene	ND	0.0048	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Dichlorodifluoromethane	ND	0.012	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,1-Dichloroethane	ND	0.0021	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,1-Dichloroethene	ND	0.013	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,2-Dichloropropane	ND	0.0032	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,3-Dichloropropane	ND	0.0043	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
2,2-Dichloropropane	ND	0.0022	0.077		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,1-Dichloropropene	ND	0.0030	0.077		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Hexachlorobutadiene	ND	0.0047	0.077		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
2-Hexanone	ND	0.021	0.38		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Isopropylbenzene	ND	0.0033	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
4-Isopropyltoluene	ND	0.0034	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
4-Methyl-2-pentanone	ND	0.011	0.38		mg/Kg	1	10/31/2016 1:14:05 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-002**Client Sample ID:** SB-2 (8.5-10)**Collection Date:** 10/24/2016 3:35:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.014	0.011	0.12	J	mg/Kg	1	10/31/2016 1:14:05 PM	S38351
n-Butylbenzene	ND	0.0034	0.12		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
n-Propylbenzene	ND	0.0030	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
sec-Butylbenzene	ND	0.0053	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Styrene	ND	0.0034	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
tert-Butylbenzene	ND	0.0032	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0037	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0062	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Tetrachloroethene (PCE)	ND	0.0032	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
trans-1,2-DCE	ND	0.011	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
trans-1,3-Dichloropropene	ND	0.0056	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,2,3-Trichlorobenzene	ND	0.0057	0.077		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,2,4-Trichlorobenzene	ND	0.0041	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,1,1-Trichloroethane	ND	0.0023	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,1,2-Trichloroethane	ND	0.0045	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Trichloroethene (TCE)	ND	0.0041	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Trichlorofluoromethane	ND	0.0029	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
1,2,3-Trichloropropane	ND	0.0066	0.077		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Vinyl chloride	ND	0.0031	0.038		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Xylenes, Total	ND	0.0073	0.077		mg/Kg	1	10/31/2016 1:14:05 PM	S38351
Surr: Dibromofluoromethane	103	70-130		%Rec	1	10/31/2016 1:14:05 PM	S38351	
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	10/31/2016 1:14:05 PM	S38351	
Surr: Toluene-d8	94.8	70-130		%Rec	1	10/31/2016 1:14:05 PM	S38351	
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	10/31/2016 1:14:05 PM	S38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.58	3.8		mg/Kg	1	10/31/2016 1:14:05 PM	GS3835
Surr: BFB	99.5	0	70-130		%Rec	1	10/31/2016 1:14:05 PM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-003**Client Sample ID:** SB-3 (8.5-10)**Collection Date:** 10/24/2016 4:00:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	9.8	1.7	9.4		mg/Kg	1	11/1/2016 3:41:30 PM	28372
Motor Oil Range Organics (MRO)	ND	47	47		mg/Kg	1	11/1/2016 3:41:30 PM	28372
Surr: DNOP	95.0	0	70-130		%Rec	1	11/1/2016 3:41:30 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	0.33	0.034	0.25		mg/Kg	1	11/6/2016 6:03:01 PM	28374
1-Methylnaphthalene	0.13	0.036	0.25	J	mg/Kg	1	11/6/2016 6:03:01 PM	28374
2-Methylnaphthalene	0.31	0.034	0.25		mg/Kg	1	11/6/2016 6:03:01 PM	28374
Acenaphthylene	ND	0.033	0.25		mg/Kg	1	11/6/2016 6:03:01 PM	28374
Acenaphthene	ND	0.030	0.25		mg/Kg	1	11/6/2016 6:03:01 PM	28374
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/6/2016 6:03:01 PM	28374
Phenanthrene	0.0059	0.0016	0.015	J	mg/Kg	1	11/6/2016 6:03:01 PM	28374
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/6/2016 6:03:01 PM	28374
Fluoranthene	ND	0.0033	0.020		mg/Kg	1	11/6/2016 6:03:01 PM	28374
Pyrene	ND	0.0033	0.025		mg/Kg	1	11/6/2016 6:03:01 PM	28374
Benz(a)anthracene	ND	0.00049	0.0099		mg/Kg	1	11/6/2016 6:03:01 PM	28374
Chrysene	ND	0.0014	0.0099		mg/Kg	1	11/6/2016 6:03:01 PM	28374
Benzo(b)fluoranthene	ND	0.00070	0.0099		mg/Kg	1	11/6/2016 6:03:01 PM	28374
Benzo(k)fluoranthene	ND	0.00039	0.0099		mg/Kg	1	11/6/2016 6:03:01 PM	28374
Benzo(a)pyrene	ND	0.00039	0.0099		mg/Kg	1	11/6/2016 6:03:01 PM	28374
Dibenz(a,h)anthracene	0.00074	0.00049	0.0099	J	mg/Kg	1	11/6/2016 6:03:01 PM	28374
Benzo(g,h,i)perylene	ND	0.00059	0.0099		mg/Kg	1	11/6/2016 6:03:01 PM	28374
Indeno(1,2,3-cd)pyrene	ND	0.00079	0.0099		mg/Kg	1	11/6/2016 6:03:01 PM	28374
Surr: Benzo(e)pyrene	61.3	0	27.4-110		%Rec	1	11/6/2016 6:03:01 PM	28374
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	1.0	2.5		mg/Kg	1	10/31/2016 11:11:36 AM	28363
Arsenic	2.1	0.89	2.5	J	mg/Kg	1	10/31/2016 11:11:36 AM	28363
Chromium	4.9	0.094	0.30		mg/Kg	1	10/31/2016 11:11:36 AM	28363
Iron	7800	38	120		mg/Kg	50	10/31/2016 1:33:57 PM	28363
Lead	3.0	0.17	0.25		mg/Kg	1	10/31/2016 11:11:36 AM	28363
Manganese	72	0.054	0.10		mg/Kg	1	10/31/2016 11:11:36 AM	28363
Thallium	ND	0.77	2.5		mg/Kg	1	10/31/2016 11:11:36 AM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.013	0.017		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Toluene	0.0044	0.0020	0.034	J	mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Ethylbenzene	0.027	0.0028	0.034	J	mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.011	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,2,4-Trimethylbenzene	0.019	0.0025	0.034	J	mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,3,5-Trimethylbenzene	0.0060	0.0024	0.034	J	mg/Kg	1	10/31/2016 2:40:42 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
R RPD outside accepted recovery limits	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-003**Client Sample ID:** SB-3 (8.5-10)**Collection Date:** 10/24/2016 4:00:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0088	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,2-Dibromoethane (EDB)	ND	0.0024	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Naphthalene	1.0	0.0053	0.067		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1-Methylnaphthalene	0.32	0.0075	0.13		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
2-Methylnaphthalene	0.67	0.0072	0.13		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Acetone	0.15	0.043	0.50	J	mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Bromobenzene	ND	0.0027	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Bromodichloromethane	ND	0.0020	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Bromoform	ND	0.0041	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Bromomethane	0.034	0.012	0.10	J	mg/Kg	1	10/31/2016 2:40:42 PM	S38351
2-Butanone	0.045	0.019	0.34	J	mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Carbon disulfide	ND	0.011	0.34		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Carbon tetrachloride	ND	0.0022	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Chlorobenzene	ND	0.0027	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Chloroethane	ND	0.0067	0.067		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Chloroform	0.0081	0.0025	0.034	J	mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Chloromethane	ND	0.0030	0.10		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
2-Chlorotoluene	ND	0.0025	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
4-Chlorotoluene	ND	0.0030	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
cis-1,2-DCE	ND	0.0020	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
cis-1,3-Dichloropropene	ND	0.0031	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,2-Dibromo-3-chloropropane	ND	0.010	0.067		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Dibromochloromethane	ND	0.0030	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Dibromomethane	ND	0.0029	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,2-Dichlorobenzene	ND	0.0029	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,3-Dichlorobenzene	ND	0.0028	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,4-Dichlorobenzene	ND	0.0042	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Dichlorodifluoromethane	ND	0.010	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,1-Dichloroethane	ND	0.0018	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,1-Dichloroethene	ND	0.011	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,2-Dichloropropane	ND	0.0028	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,3-Dichloropropane	ND	0.0038	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
2,2-Dichloropropane	ND	0.0019	0.067		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,1-Dichloropropene	ND	0.0027	0.067		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Hexachlorobutadiene	ND	0.0041	0.067		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
2-Hexanone	ND	0.018	0.34		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Isopropylbenzene	0.028	0.0029	0.034	J	mg/Kg	1	10/31/2016 2:40:42 PM	S38351
4-Isopropyltoluene	0.0077	0.0030	0.034	J	mg/Kg	1	10/31/2016 2:40:42 PM	S38351
4-Methyl-2-pentanone	0.024	0.0098	0.34	J	mg/Kg	1	10/31/2016 2:40:42 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-003**Client Sample ID:** SB-3 (8.5-10)**Collection Date:** 10/24/2016 4:00:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.024	0.0097	0.10	J	mg/Kg	1	10/31/2016 2:40:42 PM	S38351
n-Butylbenzene	0.064	0.0030	0.10	J	mg/Kg	1	10/31/2016 2:40:42 PM	S38351
n-Propylbenzene	0.12	0.0026	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
sec-Butylbenzene	0.019	0.0047	0.034	J	mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Styrene	ND	0.0030	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
tert-Butylbenzene	ND	0.0028	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0032	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0054	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Tetrachloroethene (PCE)	ND	0.0028	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
trans-1,2-DCE	ND	0.0094	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
trans-1,3-Dichloropropene	ND	0.0049	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,2,3-Trichlorobenzene	ND	0.0050	0.067		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,2,4-Trichlorobenzene	ND	0.0036	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,1,1-Trichloroethane	ND	0.0021	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,1,2-Trichloroethane	ND	0.0040	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Trichloroethene (TCE)	ND	0.0036	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Trichlorofluoromethane	ND	0.0025	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
1,2,3-Trichloropropane	ND	0.0058	0.067		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Vinyl chloride	ND	0.0027	0.034		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Xylenes, Total	ND	0.0064	0.067		mg/Kg	1	10/31/2016 2:40:42 PM	S38351
Surr: Dibromofluoromethane	103	70-130			%Rec	1	10/31/2016 2:40:42 PM	S38351
Surr: 1,2-Dichloroethane-d4	98.9	70-130			%Rec	1	10/31/2016 2:40:42 PM	S38351
Surr: Toluene-d8	95.3	70-130			%Rec	1	10/31/2016 2:40:42 PM	S38351
Surr: 4-Bromofluorobenzene	96.4	70-130			%Rec	1	10/31/2016 2:40:42 PM	S38351
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	2.1	0.51	3.4	J	mg/Kg	1	10/31/2016 2:40:42 PM	GS3835
Surr: BFB	101	0	70-130		%Rec	1	10/31/2016 2:40:42 PM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-004**Client Sample ID:** SB-4 (10-12)**Collection Date:** 10/24/2016 4:30:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	7.5	1.7	9.1	J	mg/Kg	1	11/1/2016 4:03:23 PM	28372
Motor Oil Range Organics (MRO)	ND	46	46		mg/Kg	1	11/1/2016 4:03:23 PM	28372
Surr: DNOP	91.1	0	70-130		%Rec	1	11/1/2016 4:03:23 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.035	0.25		mg/Kg	1	11/6/2016 7:01:27 PM	28374
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/6/2016 7:01:27 PM	28374
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/6/2016 7:01:27 PM	28374
Acenaphthylene	ND	0.033	0.25		mg/Kg	1	11/6/2016 7:01:27 PM	28374
Acenaphthene	ND	0.031	0.25		mg/Kg	1	11/6/2016 7:01:27 PM	28374
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/6/2016 7:01:27 PM	28374
Phenanthrene	0.0035	0.0016	0.015	J	mg/Kg	1	11/6/2016 7:01:27 PM	28374
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/6/2016 7:01:27 PM	28374
Fluoranthene	ND	0.0033	0.020		mg/Kg	1	11/6/2016 7:01:27 PM	28374
Pyrene	ND	0.0034	0.025		mg/Kg	1	11/6/2016 7:01:27 PM	28374
Benz(a)anthracene	ND	0.00050	0.010		mg/Kg	1	11/6/2016 7:01:27 PM	28374
Chrysene	ND	0.0014	0.010		mg/Kg	1	11/6/2016 7:01:27 PM	28374
Benzo(b)fluoranthene	ND	0.00070	0.010		mg/Kg	1	11/6/2016 7:01:27 PM	28374
Benzo(k)fluoranthene	ND	0.00040	0.010		mg/Kg	1	11/6/2016 7:01:27 PM	28374
Benzo(a)pyrene	ND	0.00040	0.010		mg/Kg	1	11/6/2016 7:01:27 PM	28374
Dibenz(a,h)anthracene	0.00050	0.00050	0.010	J	mg/Kg	1	11/6/2016 7:01:27 PM	28374
Benzo(g,h,i)perylene	ND	0.00060	0.010		mg/Kg	1	11/6/2016 7:01:27 PM	28374
Indeno(1,2,3-cd)pyrene	ND	0.00080	0.010		mg/Kg	1	11/6/2016 7:01:27 PM	28374
Surr: Benzo(e)pyrene	64.9	0	27.4-110		%Rec	1	11/6/2016 7:01:27 PM	28374
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.96	2.4		mg/Kg	1	10/31/2016 11:15:10 AM	28363
Arsenic	2.3	0.85	2.4	J	mg/Kg	1	10/31/2016 11:15:10 AM	28363
Chromium	6.1	0.090	0.29		mg/Kg	1	10/31/2016 11:15:10 AM	28363
Iron	8500	36	120		mg/Kg	50	10/31/2016 1:35:28 PM	28363
Lead	3.3	0.17	0.24		mg/Kg	1	10/31/2016 11:15:10 AM	28363
Manganese	98	0.051	0.096		mg/Kg	1	10/31/2016 11:15:10 AM	28363
Thallium	ND	0.74	2.4		mg/Kg	1	10/31/2016 11:15:10 AM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.013	0.017		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Toluene	ND	0.0020	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Ethylbenzene	ND	0.0027	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.010	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,2,4-Trimethylbenzene	ND	0.0025	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,3,5-Trimethylbenzene	ND	0.0024	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	Page 10 of 119
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
R RPD outside accepted recovery limits	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-004**Client Sample ID:** SB-4 (10-12)**Collection Date:** 10/24/2016 4:30:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0087	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,2-Dibromoethane (EDB)	ND	0.0024	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Naphthalene	0.0078	0.0052	0.067	J	mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1-Methylnaphthalene	0.011	0.0074	0.13	J	mg/Kg	1	10/31/2016 3:09:20 PM	S38351
2-Methylnaphthalene	0.022	0.0071	0.13	J	mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Acetone	0.088	0.043	0.50	J	mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Bromobenzene	ND	0.0027	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Bromodichloromethane	ND	0.0019	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Bromoform	ND	0.0041	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Bromomethane	0.034	0.012	0.10	J	mg/Kg	1	10/31/2016 3:09:20 PM	S38351
2-Butanone	ND	0.019	0.33		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Carbon disulfide	ND	0.011	0.33		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Carbon tetrachloride	ND	0.0022	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Chlorobenzene	ND	0.0027	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Chloroethane	ND	0.0067	0.067		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Chloroform	ND	0.0025	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Chloromethane	ND	0.0030	0.10		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
2-Chlorotoluene	ND	0.0025	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
4-Chlorotoluene	ND	0.0029	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
cis-1,2-DCE	ND	0.0019	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
cis-1,3-Dichloropropene	ND	0.0031	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,2-Dibromo-3-chloropropane	ND	0.010	0.067		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Dibromochloromethane	ND	0.0030	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Dibromomethane	ND	0.0029	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,2-Dichlorobenzene	ND	0.0029	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,3-Dichlorobenzene	ND	0.0027	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,4-Dichlorobenzene	ND	0.0041	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Dichlorodifluoromethane	ND	0.010	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,1-Dichloroethane	ND	0.0018	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,1-Dichloroethene	ND	0.011	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,2-Dichloropropane	ND	0.0028	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,3-Dichloropropane	ND	0.0038	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
2,2-Dichloropropane	ND	0.0019	0.067		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,1-Dichloropropene	ND	0.0026	0.067		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Hexachlorobutadiene	ND	0.0041	0.067		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
2-Hexanone	ND	0.018	0.33		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Isopropylbenzene	ND	0.0029	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
4-Isopropyltoluene	ND	0.0030	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
4-Methyl-2-pentanone	ND	0.0097	0.33		mg/Kg	1	10/31/2016 3:09:20 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-004**Client Sample ID:** SB-4 (10-12)**Collection Date:** 10/24/2016 4:30:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.017	0.0096	0.10	J	mg/Kg	1	10/31/2016 3:09:20 PM	S38351
n-Butylbenzene	ND	0.0029	0.10		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
n-Propylbenzene	ND	0.0026	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
sec-Butylbenzene	ND	0.0046	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Styrene	ND	0.0030	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
tert-Butylbenzene	ND	0.0028	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0032	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0054	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Tetrachloroethene (PCE)	ND	0.0028	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
trans-1,2-DCE	ND	0.0093	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
trans-1,3-Dichloropropene	ND	0.0049	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,2,3-Trichlorobenzene	ND	0.0050	0.067		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,2,4-Trichlorobenzene	ND	0.0036	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,1,1-Trichloroethane	ND	0.0020	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,1,2-Trichloroethane	ND	0.0039	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Trichloroethene (TCE)	ND	0.0036	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Trichlorofluoromethane	ND	0.0025	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
1,2,3-Trichloropropane	ND	0.0058	0.067		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Vinyl chloride	ND	0.0027	0.033		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Xylenes, Total	ND	0.0063	0.067		mg/Kg	1	10/31/2016 3:09:20 PM	S38351
Surr: Dibromofluoromethane	103	70-130			%Rec	1	10/31/2016 3:09:20 PM	S38351
Surr: 1,2-Dichloroethane-d4	95.6	70-130			%Rec	1	10/31/2016 3:09:20 PM	S38351
Surr: Toluene-d8	96.2	70-130			%Rec	1	10/31/2016 3:09:20 PM	S38351
Surr: 4-Bromofluorobenzene	100	70-130			%Rec	1	10/31/2016 3:09:20 PM	S38351
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	0.65	0.50	3.3	J	mg/Kg	1	10/31/2016 3:09:20 PM	GS3835
Surr: BFB	104	0	70-130		%Rec	1	10/31/2016 3:09:20 PM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-005**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM**Client Sample ID:** SB-5 (6-10)**Collection Date:** 10/25/2016 8:40:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	38	1.8	9.6		mg/Kg	1	11/2/2016 10:15:26 PM	28372
Motor Oil Range Organics (MRO)	130	48	48		mg/Kg	1	11/2/2016 10:15:26 PM	28372
Surr: DNOP	99.9	0	70-130		%Rec	1	11/2/2016 10:15:26 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.87	6.3	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
1-Methylnaphthalene	ND	0.93	6.3	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
2-Methylnaphthalene	ND	0.88	6.3	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Acenaphthylene	ND	0.84	6.3	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Acenaphthene	ND	0.77	6.3	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Fluorene	ND	0.083	0.75	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Phenanthrene	ND	0.040	0.38	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Anthracene	ND	0.060	0.38	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Fluoranthene	ND	0.083	0.50	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Pyrene	ND	0.085	0.63	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Benz(a)anthracene	ND	0.013	0.25	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Chrysene	ND	0.035	0.25	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Benzo(b)fluoranthene	ND	0.018	0.25	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Benzo(k)fluoranthene	ND	0.010	0.25	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Benzo(a)pyrene	ND	0.010	0.25	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Dibenz(a,h)anthracene	ND	0.013	0.25	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Benzo(g,h,i)perylene	ND	0.015	0.25	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Indeno(1,2,3-cd)pyrene	ND	0.020	0.25	D	mg/Kg	5	11/7/2016 2:02:23 PM	28374
Surr: Benzo(e)pyrene	0	0	27.4-110	SD	%Rec	5	11/7/2016 2:02:23 PM	28374
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.96	2.4		mg/Kg	1	10/31/2016 11:19:01 AM	28363
Arsenic	3.4	0.85	2.4		mg/Kg	1	10/31/2016 11:19:01 AM	28363
Chromium	8.1	0.090	0.29		mg/Kg	1	10/31/2016 11:19:01 AM	28363
Iron	11000	36	120		mg/Kg	50	10/31/2016 1:36:58 PM	28363
Lead	4.0	0.17	0.24		mg/Kg	1	10/31/2016 11:19:01 AM	28363
Manganese	350	0.10	0.19		mg/Kg	2	10/31/2016 11:20:50 AM	28363
Thallium	ND	0.74	2.4		mg/Kg	1	10/31/2016 11:19:01 AM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.012	0.015		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Toluene	ND	0.0018	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Ethylbenzene	ND	0.0025	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.0097	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,2,4-Trimethylbenzene	ND	0.0023	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,3,5-Trimethylbenzene	ND	0.0022	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
R RPD outside accepted recovery limits	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-005**Client Sample ID:** SB-5 (6-10)**Collection Date:** 10/25/2016 8:40:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0080	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,2-Dibromoethane (EDB)	ND	0.0022	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Naphthalene	ND	0.0048	0.061		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1-Methylnaphthalene	ND	0.0068	0.12		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
2-Methylnaphthalene	ND	0.0066	0.12		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Acetone	0.045	0.040	0.46	J	mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Bromobenzene	ND	0.0025	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Bromodichloromethane	ND	0.0018	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Bromoform	ND	0.0037	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Bromomethane	0.023	0.011	0.092	J	mg/Kg	1	10/31/2016 3:38:07 PM	S38351
2-Butanone	0.055	0.018	0.31	J	mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Carbon disulfide	ND	0.010	0.31		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Carbon tetrachloride	ND	0.0020	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Chlorobenzene	ND	0.0025	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Chloroethane	ND	0.0061	0.061		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Chloroform	ND	0.0023	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Chloromethane	0.012	0.0027	0.092	J	mg/Kg	1	10/31/2016 3:38:07 PM	S38351
2-Chlorotoluene	ND	0.0023	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
4-Chlorotoluene	ND	0.0027	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
cis-1,2-DCE	ND	0.0018	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
cis-1,3-Dichloropropene	ND	0.0028	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,2-Dibromo-3-chloropropane	ND	0.0094	0.061		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Dibromochloromethane	ND	0.0028	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Dibromomethane	ND	0.0027	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,2-Dichlorobenzene	ND	0.0027	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,3-Dichlorobenzene	ND	0.0025	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,4-Dichlorobenzene	ND	0.0038	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Dichlorodifluoromethane	ND	0.0095	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,1-Dichloroethane	ND	0.0017	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,1-Dichloroethene	ND	0.010	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,2-Dichloropropane	ND	0.0026	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,3-Dichloropropane	ND	0.0035	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
2,2-Dichloropropane	ND	0.0018	0.061		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,1-Dichloropropene	ND	0.0024	0.061		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Hexachlorobutadiene	ND	0.0038	0.061		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
2-Hexanone	ND	0.017	0.31		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Isopropylbenzene	ND	0.0026	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
4-Isopropyltoluene	ND	0.0028	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
4-Methyl-2-pentanone	ND	0.0089	0.31		mg/Kg	1	10/31/2016 3:38:07 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-005**Client Sample ID:** SB-5 (6-10)**Collection Date:** 10/25/2016 8:40:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.015	0.0089	0.092	J	mg/Kg	1	10/31/2016 3:38:07 PM	S38351
n-Butylbenzene	ND	0.0027	0.092		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
n-Propylbenzene	ND	0.0024	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
sec-Butylbenzene	ND	0.0043	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Styrene	ND	0.0027	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
tert-Butylbenzene	ND	0.0025	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0029	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0050	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Tetrachloroethene (PCE)	ND	0.0025	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
trans-1,2-DCE	ND	0.0086	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
trans-1,3-Dichloropropene	ND	0.0045	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,2,3-Trichlorobenzene	ND	0.0046	0.061		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,2,4-Trichlorobenzene	ND	0.0033	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,1,1-Trichloroethane	ND	0.0019	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,1,2-Trichloroethane	ND	0.0036	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Trichloroethene (TCE)	ND	0.0033	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Trichlorofluoromethane	ND	0.0023	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
1,2,3-Trichloropropane	ND	0.0053	0.061		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Vinyl chloride	ND	0.0025	0.031		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Xylenes, Total	ND	0.0058	0.061		mg/Kg	1	10/31/2016 3:38:07 PM	S38351
Surr: Dibromofluoromethane	101	70-130			%Rec	1	10/31/2016 3:38:07 PM	S38351
Surr: 1,2-Dichloroethane-d4	96.2	70-130			%Rec	1	10/31/2016 3:38:07 PM	S38351
Surr: Toluene-d8	93.9	70-130			%Rec	1	10/31/2016 3:38:07 PM	S38351
Surr: 4-Bromofluorobenzene	99.7	70-130			%Rec	1	10/31/2016 3:38:07 PM	S38351
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	1.8	0.46	3.1	J	mg/Kg	1	10/31/2016 3:38:07 PM	GS3835
Surr: BFB	95.0	0	70-130		%Rec	1	10/31/2016 3:38:07 PM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-006**Matrix:** MEOH (SOIL)**Client Sample ID:** SB-6 (5-10)**Collection Date:** 10/25/2016 11:57:00 AM**Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	ND	1.8	9.8		mg/Kg	1	11/1/2016 5:09:17 PM	28372
Motor Oil Range Organics (MRO)	ND	49	49		mg/Kg	1	11/1/2016 5:09:17 PM	28372
Surr: DNOP	95.1	0	70-130		%Rec	1	11/1/2016 5:09:17 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.035	0.25		mg/Kg	1	11/6/2016 7:59:51 PM	28374
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/6/2016 7:59:51 PM	28374
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Acenaphthylene	ND	0.033	0.25		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Acenaphthene	ND	0.030	0.25		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Phenanthrene	ND	0.0016	0.015		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Fluoranthene	ND	0.0033	0.020		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Pyrene	ND	0.0034	0.025		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Benz(a)anthracene	ND	0.00050	0.0099		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Chrysene	ND	0.0014	0.0099		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Benzo(b)fluoranthene	ND	0.00070	0.0099		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Benzo(k)fluoranthene	ND	0.00040	0.0099		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Benzo(a)pyrene	ND	0.00040	0.0099		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Dibenz(a,h)anthracene	ND	0.00050	0.0099		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Benzo(g,h,i)perylene	ND	0.00060	0.0099		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Indeno(1,2,3-cd)pyrene	ND	0.00079	0.0099		mg/Kg	1	11/6/2016 7:59:51 PM	28374
Surr: Benzo(e)pyrene	39.6	0	27.4-110		%Rec	1	11/6/2016 7:59:51 PM	28374
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	2.0	4.9		mg/Kg	2	10/31/2016 11:33:38 AM	28363
Arsenic	3.2	1.8	4.9	J	mg/Kg	2	10/31/2016 11:33:38 AM	28363
Chromium	10	0.19	0.59		mg/Kg	2	10/31/2016 11:33:38 AM	28363
Iron	22000	75	250		mg/Kg	100	11/2/2016 10:36:38 AM	28363
Lead	6.6	0.34	0.49		mg/Kg	2	10/31/2016 11:33:38 AM	28363
Manganese	290	0.11	0.20		mg/Kg	2	10/31/2016 11:33:38 AM	28363
Thallium	ND	1.5	4.9		mg/Kg	2	10/31/2016 11:33:38 AM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.011	0.014		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Toluene	ND	0.0016	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Ethylbenzene	ND	0.0023	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.0087	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,2,4-Trimethylbenzene	ND	0.0020	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,3,5-Trimethylbenzene	ND	0.0020	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-006**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM**Client Sample ID:** SB-6 (5-10)**Collection Date:** 10/25/2016 11:57:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0072	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,2-Dibromoethane (EDB)	ND	0.0020	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Naphthalene	ND	0.0043	0.056		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1-Methylnaphthalene	ND	0.0062	0.11		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
2-Methylnaphthalene	ND	0.0059	0.11		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Acetone	ND	0.036	0.42		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Bromobenzene	ND	0.0022	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Bromodichloromethane	ND	0.0016	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Bromoform	ND	0.0034	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Bromomethane	0.019	0.010	0.083	J	mg/Kg	1	10/31/2016 4:06:39 PM	S38351
2-Butanone	ND	0.016	0.28		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Carbon disulfide	ND	0.0092	0.28		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Carbon tetrachloride	ND	0.0018	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Chlorobenzene	ND	0.0023	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Chloroethane	ND	0.0055	0.056		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Chloroform	ND	0.0021	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Chloromethane	ND	0.0025	0.083		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
2-Chlorotoluene	ND	0.0020	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
4-Chlorotoluene	ND	0.0025	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
cis-1,2-DCE	ND	0.0016	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
cis-1,3-Dichloropropene	ND	0.0026	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,2-Dibromo-3-chloropropane	ND	0.0085	0.056		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Dibromochloromethane	ND	0.0025	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Dibromomethane	ND	0.0024	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,2-Dichlorobenzene	ND	0.0024	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,3-Dichlorobenzene	ND	0.0023	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,4-Dichlorobenzene	ND	0.0034	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Dichlorodifluoromethane	ND	0.0086	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,1-Dichloroethane	ND	0.0015	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,1-Dichloroethene	ND	0.0091	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,2-Dichloropropane	ND	0.0023	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,3-Dichloropropane	ND	0.0031	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
2,2-Dichloropropane	ND	0.0016	0.056		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,1-Dichloropropene	ND	0.0022	0.056		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Hexachlorobutadiene	ND	0.0034	0.056		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
2-Hexanone	ND	0.015	0.28		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Isopropylbenzene	ND	0.0024	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
4-Isopropyltoluene	ND	0.0025	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
4-Methyl-2-pentanone	ND	0.0081	0.28		mg/Kg	1	10/31/2016 4:06:39 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-006**Client Sample ID:** SB-6 (5-10)**Collection Date:** 10/25/2016 11:57:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.014	0.0080	0.083	J	mg/Kg	1	10/31/2016 4:06:39 PM	S38351
n-Butylbenzene	ND	0.0025	0.083		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
n-Propylbenzene	ND	0.0021	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
sec-Butylbenzene	ND	0.0038	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Styrene	ND	0.0025	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
tert-Butylbenzene	ND	0.0023	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0027	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0045	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Tetrachloroethene (PCE)	ND	0.0023	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
trans-1,2-DCE	ND	0.0078	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
trans-1,3-Dichloropropene	ND	0.0041	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,2,3-Trichlorobenzene	ND	0.0042	0.056		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,2,4-Trichlorobenzene	ND	0.0030	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,1,1-Trichloroethane	ND	0.0017	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,1,2-Trichloroethane	ND	0.0033	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Trichloroethene (TCE)	ND	0.0030	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Trichlorofluoromethane	ND	0.0021	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
1,2,3-Trichloropropane	ND	0.0048	0.056		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Vinyl chloride	ND	0.0023	0.028		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Xylenes, Total	ND	0.0053	0.056		mg/Kg	1	10/31/2016 4:06:39 PM	S38351
Surr: Dibromofluoromethane	101	70-130		%Rec	1	10/31/2016 4:06:39 PM	S38351	
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%Rec	1	10/31/2016 4:06:39 PM	S38351	
Surr: Toluene-d8	94.2	70-130		%Rec	1	10/31/2016 4:06:39 PM	S38351	
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	10/31/2016 4:06:39 PM	S38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.42	2.8		mg/Kg	1	10/31/2016 4:06:39 PM	GS3835
Surr: BFB	97.7	0	70-130		%Rec	1	10/31/2016 4:06:39 PM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-007**Client Sample ID:** SB-7 (5-10)**Collection Date:** 10/25/2016 12:20:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	140	1.9	10		mg/Kg	1	11/2/2016 10:58:51 PM	28372
Motor Oil Range Organics (MRO)	400	50	50		mg/Kg	1	11/2/2016 10:58:51 PM	28372
Surr: DNOP	110	0	70-130		%Rec	1	11/2/2016 10:58:51 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	0.039	0.034	0.24	J	mg/Kg	1	11/6/2016 8:29:03 PM	28374
1-Methylnaphthalene	ND	0.036	0.24		mg/Kg	1	11/6/2016 8:29:03 PM	28374
2-Methylnaphthalene	0.061	0.034	0.24	J	mg/Kg	1	11/6/2016 8:29:03 PM	28374
Acenaphthylene	ND	0.033	0.24		mg/Kg	1	11/6/2016 8:29:03 PM	28374
Acenaphthene	ND	0.030	0.24		mg/Kg	1	11/6/2016 8:29:03 PM	28374
Fluorene	0.032	0.0032	0.029		mg/Kg	1	11/6/2016 8:29:03 PM	28374
Phenanthrene	0.22	0.016	0.15	D	mg/Kg	10	11/7/2016 2:31:42 PM	28374
Anthracene	0.066	0.0023	0.015		mg/Kg	1	11/6/2016 8:29:03 PM	28374
Fluoranthene	0.18	0.0032	0.019		mg/Kg	1	11/6/2016 8:29:03 PM	28374
Pyrene	0.15	0.0033	0.024		mg/Kg	1	11/6/2016 8:29:03 PM	28374
Benz(a)anthracene	0.050	0.00097	0.019		mg/Kg	2	11/9/2016 9:25:21 AM	28374
Chrysene	0.029	0.0014	0.0097		mg/Kg	1	11/6/2016 8:29:03 PM	28374
Benzo(b)fluoranthene	0.037	0.0014	0.019		mg/Kg	2	11/9/2016 9:25:21 AM	28374
Benzo(k)fluoranthene	0.026	0.00078	0.019		mg/Kg	2	11/9/2016 9:25:21 AM	28374
Benzo(a)pyrene	0.050	0.0019	0.049		mg/Kg	5	11/9/2016 9:54:36 AM	28374
Dibenz(a,h)anthracene	0.0037	0.00049	0.0097	J	mg/Kg	1	11/6/2016 8:29:03 PM	28374
Benzo(g,h,i)perylene	0.035	0.0012	0.019		mg/Kg	2	11/9/2016 9:25:21 AM	28374
Indeno(1,2,3-cd)pyrene	0.055	0.00078	0.0097		mg/Kg	1	11/6/2016 8:29:03 PM	28374
Surr: Benzo(e)pyrene	69.6	0	27.4-110		%Rec	1	11/6/2016 8:29:03 PM	28374
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.96	2.4		mg/Kg	1	10/31/2016 11:35:47 AM	28363
Arsenic	1.6	0.85	2.4	J	mg/Kg	1	10/31/2016 11:35:47 AM	28363
Chromium	5.0	0.090	0.29		mg/Kg	1	10/31/2016 11:35:47 AM	28363
Iron	7900	36	120		mg/Kg	50	10/31/2016 1:40:02 PM	28363
Lead	4.9	0.17	0.24		mg/Kg	1	10/31/2016 11:35:47 AM	28363
Manganese	180	0.051	0.096		mg/Kg	1	10/31/2016 11:35:47 AM	28363
Thallium	ND	0.74	2.4		mg/Kg	1	10/31/2016 11:35:47 AM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.010	0.013		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Toluene	ND	0.0015	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Ethylbenzene	ND	0.0021	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.0081	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,2,4-Trimethylbenzene	ND	0.0019	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,3,5-Trimethylbenzene	ND	0.0019	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Client Sample ID:** SB-7 (5-10)**Project:** COA Railyards**Collection Date:** 10/25/2016 12:20:00 PM**Lab ID:** 1610E23-007**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
							Analyst: DJF	
1,2-Dichloroethane (EDC)	ND	0.0067	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,2-Dibromoethane (EDB)	ND	0.0018	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Naphthalene	0.022	0.0040	0.052	J	mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1-Methylnaphthalene	ND	0.0057	0.10		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
2-Methylnaphthalene	0.0062	0.0055	0.10	J	mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Acetone	0.041	0.033	0.39	J	mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Bromobenzene	ND	0.0021	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Bromodichloromethane	ND	0.0015	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Bromoform	ND	0.0031	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Bromomethane	0.018	0.0095	0.078	J	mg/Kg	1	10/31/2016 4:35:30 PM	S38351
2-Butanone	ND	0.015	0.26		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Carbon disulfide	ND	0.0085	0.26		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Carbon tetrachloride	ND	0.0017	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Chlorobenzene	ND	0.0021	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Chloroethane	ND	0.0052	0.052		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Chloroform	ND	0.0020	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Chloromethane	ND	0.0023	0.078		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
2-Chlorotoluene	ND	0.0019	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
4-Chlorotoluene	ND	0.0023	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
cis-1,2-DCE	ND	0.0015	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
cis-1,3-Dichloropropene	ND	0.0024	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,2-Dibromo-3-chloropropane	ND	0.0079	0.052		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Dibromochloromethane	ND	0.0023	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Dibromomethane	ND	0.0022	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,2-Dichlorobenzene	ND	0.0023	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,3-Dichlorobenzene	ND	0.0021	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,4-Dichlorobenzene	ND	0.0032	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Dichlorodifluoromethane	ND	0.0080	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,1-Dichloroethane	ND	0.0014	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,1-Dichloroethene	ND	0.0085	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,2-Dichloropropane	ND	0.0022	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,3-Dichloropropane	ND	0.0029	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
2,2-Dichloropropane	ND	0.0015	0.052		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,1-Dichloropropene	ND	0.0021	0.052		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Hexachlorobutadiene	ND	0.0032	0.052		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
2-Hexanone	ND	0.014	0.26		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Isopropylbenzene	ND	0.0022	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
4-Isopropyltoluene	ND	0.0023	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
4-Methyl-2-pentanone	ND	0.0075	0.26		mg/Kg	1	10/31/2016 4:35:30 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-007**Client Sample ID:** SB-7 (5-10)**Collection Date:** 10/25/2016 12:20:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.014	0.0075	0.078	J	mg/Kg	1	10/31/2016 4:35:30 PM	S38351
n-Butylbenzene	ND	0.0023	0.078		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
n-Propylbenzene	ND	0.0020	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
sec-Butylbenzene	ND	0.0036	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Styrene	ND	0.0023	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
tert-Butylbenzene	ND	0.0021	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0025	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0042	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Tetrachloroethene (PCE)	ND	0.0021	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
trans-1,2-DCE	ND	0.0072	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
trans-1,3-Dichloropropene	ND	0.0038	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,2,3-Trichlorobenzene	ND	0.0039	0.052		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,2,4-Trichlorobenzene	ND	0.0028	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,1,1-Trichloroethane	ND	0.0016	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,1,2-Trichloroethane	ND	0.0030	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Trichloroethene (TCE)	ND	0.0028	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Trichlorofluoromethane	ND	0.0019	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
1,2,3-Trichloropropane	ND	0.0045	0.052		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Vinyl chloride	ND	0.0021	0.026		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Xylenes, Total	ND	0.0049	0.052		mg/Kg	1	10/31/2016 4:35:30 PM	S38351
Surr: Dibromofluoromethane	105	70-130		%Rec	1	10/31/2016 4:35:30 PM	S38351	
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%Rec	1	10/31/2016 4:35:30 PM	S38351	
Surr: Toluene-d8	96.7	70-130		%Rec	1	10/31/2016 4:35:30 PM	S38351	
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	10/31/2016 4:35:30 PM	S38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.39	2.6		mg/Kg	1	10/31/2016 4:35:30 PM	GS3835
Surr: BFB	102	0	70-130		%Rec	1	10/31/2016 4:35:30 PM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-008**Client Sample ID:** SB-8 (5-10)**Collection Date:** 10/25/2016 1:56:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	ND	1.8	9.5		mg/Kg	1	11/1/2016 6:15:18 PM	28372
Motor Oil Range Organics (MRO)	ND	48	48		mg/Kg	1	11/1/2016 6:15:18 PM	28372
Surr: DNOP	98.2	0	70-130		%Rec	1	11/1/2016 6:15:18 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.034	0.25		mg/Kg	1	11/6/2016 8:58:19 PM	28374
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/6/2016 8:58:19 PM	28374
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/6/2016 8:58:19 PM	28374
Acenaphthylene	ND	0.033	0.25		mg/Kg	1	11/6/2016 8:58:19 PM	28374
Acenaphthene	ND	0.030	0.25		mg/Kg	1	11/6/2016 8:58:19 PM	28374
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/6/2016 8:58:19 PM	28374
Phenanthrene	0.0037	0.0016	0.015	J	mg/Kg	1	11/6/2016 8:58:19 PM	28374
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/6/2016 8:58:19 PM	28374
Fluoranthene	0.0040	0.0033	0.020	J	mg/Kg	1	11/6/2016 8:58:19 PM	28374
Pyrene	0.0037	0.0034	0.025	J	mg/Kg	1	11/6/2016 8:58:19 PM	28374
Benz(a)anthracene	0.00074	0.00049	0.0099	J	mg/Kg	1	11/6/2016 8:58:19 PM	28374
Chrysene	ND	0.0014	0.0099		mg/Kg	1	11/6/2016 8:58:19 PM	28374
Benzo(b)fluoranthene	ND	0.00070	0.0099		mg/Kg	1	11/6/2016 8:58:19 PM	28374
Benzo(k)fluoranthene	0.00049	0.00040	0.0099	J	mg/Kg	1	11/6/2016 8:58:19 PM	28374
Benzo(a)pyrene	0.00074	0.00040	0.0099	J	mg/Kg	1	11/6/2016 8:58:19 PM	28374
Dibenz(a,h)anthracene	ND	0.00049	0.0099		mg/Kg	1	11/6/2016 8:58:19 PM	28374
Benzo(g,h,i)perylene	ND	0.00059	0.0099		mg/Kg	1	11/6/2016 8:58:19 PM	28374
Indeno(1,2,3-cd)pyrene	ND	0.00079	0.0099		mg/Kg	1	11/6/2016 8:58:19 PM	28374
Surr: Benzo(e)pyrene	57.6	0	27.4-110		%Rec	1	11/6/2016 8:58:19 PM	28374
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.98	2.4		mg/Kg	1	10/31/2016 12:13:50 PM	28363
Arsenic	1.7	0.87	2.4	J	mg/Kg	1	10/31/2016 12:13:50 PM	28363
Chromium	8.1	0.092	0.29		mg/Kg	1	10/31/2016 12:13:50 PM	28363
Iron	16000	74	240		mg/Kg	100	11/2/2016 10:38:09 AM	28363
Lead	3.6	0.17	0.24		mg/Kg	1	10/31/2016 12:13:50 PM	28363
Manganese	210	0.052	0.098		mg/Kg	1	10/31/2016 12:13:50 PM	28363
Thallium	ND	0.75	2.4		mg/Kg	1	10/31/2016 12:13:50 PM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.011	0.014		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Toluene	ND	0.0017	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Ethylbenzene	ND	0.0023	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.0090	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,2,4-Trimethylbenzene	ND	0.0021	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,3,5-Trimethylbenzene	ND	0.0021	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-008**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0074	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,2-Dibromoethane (EDB)	ND	0.0020	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Naphthalene	ND	0.0045	0.057		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1-Methylnaphthalene	ND	0.0063	0.11		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
2-Methylnaphthalene	ND	0.0061	0.11		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Acetone	ND	0.037	0.43		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Bromobenzene	ND	0.0023	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Bromodichloromethane	ND	0.0017	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Bromoform	ND	0.0035	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Bromomethane	0.011	0.010	0.086	J	mg/Kg	1	10/31/2016 5:04:19 PM	S38351
2-Butanone	ND	0.016	0.29		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Carbon disulfide	ND	0.0094	0.29		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Carbon tetrachloride	ND	0.0019	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Chlorobenzene	ND	0.0023	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Chloroethane	ND	0.0057	0.057		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Chloroform	ND	0.0022	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Chloromethane	ND	0.0025	0.086		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
2-Chlorotoluene	ND	0.0021	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
4-Chlorotoluene	ND	0.0025	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
cis-1,2-DCE	ND	0.0017	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
cis-1,3-Dichloropropene	ND	0.0026	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,2-Dibromo-3-chloropropane	ND	0.0087	0.057		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Dibromochloromethane	ND	0.0026	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Dibromomethane	ND	0.0025	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,2-Dichlorobenzene	ND	0.0025	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,3-Dichlorobenzene	ND	0.0023	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,4-Dichlorobenzene	ND	0.0035	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Dichlorodifluoromethane	ND	0.0088	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,1-Dichloroethane	ND	0.0015	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,1-Dichloroethene	ND	0.0093	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,2-Dichloropropane	ND	0.0024	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,3-Dichloropropane	ND	0.0032	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
2,2-Dichloropropane	ND	0.0016	0.057		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,1-Dichloropropene	ND	0.0023	0.057		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Hexachlorobutadiene	ND	0.0035	0.057		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
2-Hexanone	ND	0.016	0.29		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Isopropylbenzene	ND	0.0024	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
4-Isopropyltoluene	ND	0.0026	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
4-Methyl-2-pentanone	ND	0.0083	0.29		mg/Kg	1	10/31/2016 5:04:19 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-008**Client Sample ID:** SB-8 (5-10)**Collection Date:** 10/25/2016 1:56:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.021	0.0082	0.086	J	mg/Kg	1	10/31/2016 5:04:19 PM	S38351
n-Butylbenzene	ND	0.0025	0.086		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
n-Propylbenzene	ND	0.0022	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
sec-Butylbenzene	ND	0.0039	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Styrene	ND	0.0025	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
tert-Butylbenzene	ND	0.0024	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0027	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0046	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Tetrachloroethene (PCE)	ND	0.0024	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
trans-1,2-DCE	ND	0.0080	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
trans-1,3-Dichloropropene	ND	0.0042	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,2,3-Trichlorobenzene	ND	0.0043	0.057		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,2,4-Trichlorobenzene	ND	0.0030	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,1,1-Trichloroethane	ND	0.0017	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,1,2-Trichloroethane	ND	0.0034	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Trichloroethene (TCE)	ND	0.0031	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Trichlorofluoromethane	ND	0.0021	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
1,2,3-Trichloropropane	ND	0.0049	0.057		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Vinyl chloride	ND	0.0023	0.029		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Xylenes, Total	ND	0.0054	0.057		mg/Kg	1	10/31/2016 5:04:19 PM	S38351
Surr: Dibromofluoromethane	103	70-130		%Rec	1	10/31/2016 5:04:19 PM	S38351	
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%Rec	1	10/31/2016 5:04:19 PM	S38351	
Surr: Toluene-d8	96.2	70-130		%Rec	1	10/31/2016 5:04:19 PM	S38351	
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	10/31/2016 5:04:19 PM	S38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.43	2.9		mg/Kg	1	10/31/2016 5:04:19 PM	GS3835
Surr: BFB	99.7	0	70-130		%Rec	1	10/31/2016 5:04:19 PM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-009**Client Sample ID:** SB-9 (5-10)**Collection Date:** 10/25/2016 4:13:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	ND	1.7	9.4		mg/Kg	1	11/1/2016 6:37:25 PM	28372
Motor Oil Range Organics (MRO)	ND	47	47		mg/Kg	1	11/1/2016 6:37:25 PM	28372
Surr: DNOP	98.0	0	70-130		%Rec	1	11/1/2016 6:37:25 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.035	0.25		mg/Kg	1	11/6/2016 9:27:30 PM	28374
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/6/2016 9:27:30 PM	28374
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/6/2016 9:27:30 PM	28374
Acenaphthylene	ND	0.033	0.25		mg/Kg	1	11/6/2016 9:27:30 PM	28374
Acenaphthene	ND	0.031	0.25		mg/Kg	1	11/6/2016 9:27:30 PM	28374
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/6/2016 9:27:30 PM	28374
Phenanthrene	0.0017	0.0016	0.015	J	mg/Kg	1	11/6/2016 9:27:30 PM	28374
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/6/2016 9:27:30 PM	28374
Fluoranthene	ND	0.0033	0.020		mg/Kg	1	11/6/2016 9:27:30 PM	28374
Pyrene	ND	0.0034	0.025		mg/Kg	1	11/6/2016 9:27:30 PM	28374
Benz(a)anthracene	0.00050	0.00050	0.010	J	mg/Kg	1	11/6/2016 9:27:30 PM	28374
Chrysene	ND	0.0014	0.010		mg/Kg	1	11/6/2016 9:27:30 PM	28374
Benzo(b)fluoranthene	ND	0.00071	0.010		mg/Kg	1	11/6/2016 9:27:30 PM	28374
Benzo(k)fluoranthene	0.00050	0.00040	0.010	J	mg/Kg	1	11/6/2016 9:27:30 PM	28374
Benzo(a)pyrene	0.00050	0.00040	0.010	J	mg/Kg	1	11/6/2016 9:27:30 PM	28374
Dibenz(a,h)anthracene	ND	0.00050	0.010		mg/Kg	1	11/6/2016 9:27:30 PM	28374
Benzo(g,h,i)perylene	ND	0.00060	0.010		mg/Kg	1	11/6/2016 9:27:30 PM	28374
Indeno(1,2,3-cd)pyrene	ND	0.00080	0.010		mg/Kg	1	11/6/2016 9:27:30 PM	28374
Surr: Benzo(e)pyrene	48.0	0	27.4-110		%Rec	1	11/6/2016 9:27:30 PM	28374
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.98	2.4		mg/Kg	1	10/31/2016 12:17:36 PM	28363
Arsenic	4.1	0.87	2.4		mg/Kg	1	10/31/2016 12:17:36 PM	28363
Chromium	7.3	0.092	0.29		mg/Kg	1	10/31/2016 12:17:36 PM	28363
Iron	11000	37	120		mg/Kg	50	10/31/2016 1:48:52 PM	28363
Lead	2.5	0.17	0.24		mg/Kg	1	10/31/2016 12:17:36 PM	28363
Manganese	240	0.052	0.098		mg/Kg	1	10/31/2016 12:17:36 PM	28363
Thallium	ND	0.75	2.4		mg/Kg	1	10/31/2016 12:17:36 PM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.010	0.013		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Toluene	0.0022	0.0015	0.026	J	mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Ethylbenzene	ND	0.0021	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.0081	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,2,4-Trimethylbenzene	ND	0.0019	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,3,5-Trimethylbenzene	ND	0.0019	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-009**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0067	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,2-Dibromoethane (EDB)	ND	0.0018	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Naphthalene	ND	0.0040	0.052		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1-Methylnaphthalene	ND	0.0057	0.10		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
2-Methylnaphthalene	ND	0.0055	0.10		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Acetone	0.034	0.033	0.39	J	mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Bromobenzene	ND	0.0021	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Bromodichloromethane	ND	0.0015	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Bromoform	ND	0.0031	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Bromomethane	0.021	0.0095	0.077	J	mg/Kg	1	10/31/2016 5:33:05 PM	S38351
2-Butanone	0.026	0.015	0.26	J	mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Carbon disulfide	ND	0.0085	0.26		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Carbon tetrachloride	ND	0.0017	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Chlorobenzene	ND	0.0021	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Chloroethane	ND	0.0052	0.052		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Chloroform	ND	0.0019	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Chloromethane	ND	0.0023	0.077		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
2-Chlorotoluene	ND	0.0019	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
4-Chlorotoluene	ND	0.0023	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
cis-1,2-DCE	ND	0.0015	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
cis-1,3-Dichloropropene	ND	0.0024	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,2-Dibromo-3-chloropropane	ND	0.0079	0.052		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Dibromochloromethane	ND	0.0023	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Dibromomethane	ND	0.0022	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,2-Dichlorobenzene	ND	0.0023	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,3-Dichlorobenzene	ND	0.0021	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,4-Dichlorobenzene	ND	0.0032	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Dichlorodifluoromethane	ND	0.0080	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,1-Dichloroethane	ND	0.0014	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,1-Dichloroethene	ND	0.0085	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,2-Dichloropropane	ND	0.0022	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,3-Dichloropropane	ND	0.0029	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
2,2-Dichloropropane	ND	0.0015	0.052		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,1-Dichloropropene	ND	0.0020	0.052		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Hexachlorobutadiene	ND	0.0032	0.052		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
2-Hexanone	ND	0.014	0.26		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Isopropylbenzene	ND	0.0022	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
4-Isopropyltoluene	ND	0.0023	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
4-Methyl-2-pentanone	ND	0.0075	0.26		mg/Kg	1	10/31/2016 5:33:05 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-009**Client Sample ID:** SB-9 (5-10)**Collection Date:** 10/25/2016 4:13:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.022	0.0074	0.077	J	mg/Kg	1	10/31/2016 5:33:05 PM	S38351
n-Butylbenzene	ND	0.0023	0.077		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
n-Propylbenzene	ND	0.0020	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
sec-Butylbenzene	ND	0.0036	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Styrene	ND	0.0023	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
tert-Butylbenzene	ND	0.0021	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0025	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0042	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Tetrachloroethene (PCE)	ND	0.0021	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
trans-1,2-DCE	ND	0.0072	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
trans-1,3-Dichloropropene	ND	0.0038	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,2,3-Trichlorobenzene	ND	0.0039	0.052		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,2,4-Trichlorobenzene	ND	0.0028	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,1,1-Trichloroethane	ND	0.0016	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,1,2-Trichloroethane	ND	0.0030	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Trichloroethene (TCE)	ND	0.0028	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Trichlorofluoromethane	ND	0.0019	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
1,2,3-Trichloropropane	ND	0.0045	0.052		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Vinyl chloride	ND	0.0021	0.026		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Xylenes, Total	ND	0.0049	0.052		mg/Kg	1	10/31/2016 5:33:05 PM	S38351
Surr: Dibromofluoromethane	101	70-130		%Rec	1	10/31/2016 5:33:05 PM	S38351	
Surr: 1,2-Dichloroethane-d4	96.4	70-130		%Rec	1	10/31/2016 5:33:05 PM	S38351	
Surr: Toluene-d8	92.2	70-130		%Rec	1	10/31/2016 5:33:05 PM	S38351	
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	10/31/2016 5:33:05 PM	S38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.39	2.6		mg/Kg	1	10/31/2016 5:33:05 PM	GS3835
Surr: BFB	97.3	0	70-130		%Rec	1	10/31/2016 5:33:05 PM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-010**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	ND	1.7	9.4		mg/Kg	1	11/1/2016 6:59:27 PM	28372
Motor Oil Range Organics (MRO)	ND	47	47		mg/Kg	1	11/1/2016 6:59:27 PM	28372
Surr: DNOP	98.1	0	70-130		%Rec	1	11/1/2016 6:59:27 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.035	0.25		mg/Kg	1	11/6/2016 9:56:44 PM	28398
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/6/2016 9:56:44 PM	28398
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Acenaphthylene	ND	0.033	0.25		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Acenaphthene	ND	0.031	0.25		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Phenanthrene	ND	0.0016	0.015		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Fluoranthene	ND	0.0033	0.020		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Pyrene	ND	0.0034	0.025		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Benz(a)anthracene	ND	0.00050	0.010		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Chrysene	ND	0.0014	0.010		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Benzo(b)fluoranthene	ND	0.00071	0.010		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Benzo(k)fluoranthene	ND	0.00040	0.010		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Benzo(a)pyrene	ND	0.00040	0.010		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Dibenz(a,h)anthracene	ND	0.00050	0.010		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Benzo(g,h,i)perylene	ND	0.00060	0.010		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Indeno(1,2,3-cd)pyrene	ND	0.00080	0.010		mg/Kg	1	11/6/2016 9:56:44 PM	28398
Surr: Benzo(e)pyrene	56.7	0	27.4-110		%Rec	1	11/6/2016 9:56:44 PM	28398
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.99	2.5		mg/Kg	1	10/31/2016 12:21:18 PM	28363
Arsenic	2.3	0.88	2.5	J	mg/Kg	1	10/31/2016 12:21:18 PM	28363
Chromium	7.5	0.093	0.30		mg/Kg	1	10/31/2016 12:21:18 PM	28363
Iron	16000	74	250		mg/Kg	100	11/2/2016 10:39:40 AM	28363
Lead	3.4	0.17	0.25		mg/Kg	1	10/31/2016 12:21:18 PM	28363
Manganese	150	0.053	0.099		mg/Kg	1	10/31/2016 12:21:18 PM	28363
Thallium	ND	0.76	2.5		mg/Kg	1	10/31/2016 12:21:18 PM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.012	0.015		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Toluene	ND	0.0018	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Ethylbenzene	ND	0.0025	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.0097	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,2,4-Trimethylbenzene	ND	0.0023	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,3,5-Trimethylbenzene	ND	0.0022	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	Page 28 of 119
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
R RPD outside accepted recovery limits	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-010**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0081	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,2-Dibromoethane (EDB)	ND	0.0022	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Naphthalene	ND	0.0048	0.062		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1-Methylnaphthalene	ND	0.0069	0.12		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
2-Methylnaphthalene	ND	0.0066	0.12		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Acetone	ND	0.040	0.46		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Bromobenzene	ND	0.0025	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Bromodichloromethane	ND	0.0018	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Bromoform	ND	0.0038	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Bromomethane	0.022	0.011	0.093	J	mg/Kg	1	10/31/2016 6:01:47 PM	S38351
2-Butanone	0.042	0.018	0.31	J	mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Carbon disulfide	ND	0.010	0.31		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Carbon tetrachloride	ND	0.0020	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Chlorobenzene	ND	0.0025	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Chloroethane	ND	0.0062	0.062		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Chloroform	ND	0.0023	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Chloromethane	ND	0.0028	0.093		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
2-Chlorotoluene	ND	0.0023	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
4-Chlorotoluene	ND	0.0027	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
cis-1,2-DCE	ND	0.0018	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
cis-1,3-Dichloropropene	ND	0.0029	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,2-Dibromo-3-chloropropane	ND	0.0095	0.062		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Dibromochloromethane	ND	0.0028	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Dibromomethane	ND	0.0027	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,2-Dichlorobenzene	ND	0.0027	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,3-Dichlorobenzene	ND	0.0025	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,4-Dichlorobenzene	ND	0.0038	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Dichlorodifluoromethane	ND	0.0096	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,1-Dichloroethane	ND	0.0017	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,1-Dichloroethene	ND	0.010	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,2-Dichloropropane	ND	0.0026	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,3-Dichloropropane	ND	0.0035	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
2,2-Dichloropropane	ND	0.0018	0.062		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,1-Dichloropropene	ND	0.0025	0.062		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Hexachlorobutadiene	ND	0.0038	0.062		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
2-Hexanone	ND	0.017	0.31		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Isopropylbenzene	ND	0.0027	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
4-Isopropyltoluene	ND	0.0028	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
4-Methyl-2-pentanone	ND	0.0090	0.31		mg/Kg	1	10/31/2016 6:01:47 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-010**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.019	0.0089	0.093	J	mg/Kg	1	10/31/2016 6:01:47 PM	S38351
n-Butylbenzene	ND	0.0027	0.093		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
n-Propylbenzene	ND	0.0024	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
sec-Butylbenzene	ND	0.0043	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Styrene	ND	0.0028	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
tert-Butylbenzene	ND	0.0026	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0030	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0050	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Tetrachloroethene (PCE)	ND	0.0026	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
trans-1,2-DCE	ND	0.0087	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
trans-1,3-Dichloropropene	ND	0.0045	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,2,3-Trichlorobenzene	ND	0.0046	0.062		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,2,4-Trichlorobenzene	ND	0.0033	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,1,1-Trichloroethane	ND	0.0019	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,1,2-Trichloroethane	ND	0.0036	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Trichloroethene (TCE)	ND	0.0033	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Trichlorofluoromethane	ND	0.0023	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
1,2,3-Trichloropropane	ND	0.0054	0.062		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Vinyl chloride	ND	0.0025	0.031		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Xylenes, Total	ND	0.0059	0.062		mg/Kg	1	10/31/2016 6:01:47 PM	S38351
Surr: Dibromofluoromethane	103	70-130		%Rec	1	10/31/2016 6:01:47 PM	S38351	
Surr: 1,2-Dichloroethane-d4	97.1	70-130		%Rec	1	10/31/2016 6:01:47 PM	S38351	
Surr: Toluene-d8	93.8	70-130		%Rec	1	10/31/2016 6:01:47 PM	S38351	
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	10/31/2016 6:01:47 PM	S38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.47	3.1		mg/Kg	1	10/31/2016 6:01:47 PM	GS3835
Surr: BFB	98.8	0	70-130		%Rec	1	10/31/2016 6:01:47 PM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-011**Client Sample ID:** SB-11 (0-5)**Collection Date:** 10/26/2016 8:02:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	ND	1.8	9.7		mg/Kg	1	11/1/2016 7:21:26 PM	28372
Motor Oil Range Organics (MRO)	ND	48	48		mg/Kg	1	11/1/2016 7:21:26 PM	28372
Surr: DNOP	101	0	70-130		%Rec	1	11/1/2016 7:21:26 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.033	0.24		mg/Kg	1	11/6/2016 11:24:33 PM	28398
1-Methylnaphthalene	ND	0.036	0.24		mg/Kg	1	11/6/2016 11:24:33 PM	28398
2-Methylnaphthalene	ND	0.034	0.24		mg/Kg	1	11/6/2016 11:24:33 PM	28398
Acenaphthylene	ND	0.032	0.24		mg/Kg	1	11/6/2016 11:24:33 PM	28398
Acenaphthene	ND	0.029	0.24		mg/Kg	1	11/6/2016 11:24:33 PM	28398
Fluorene	ND	0.0032	0.029		mg/Kg	1	11/6/2016 11:24:33 PM	28398
Phenanthrene	0.021	0.0015	0.014		mg/Kg	1	11/6/2016 11:24:33 PM	28398
Anthracene	0.0074	0.0023	0.014	J	mg/Kg	1	11/6/2016 11:24:33 PM	28398
Fluoranthene	0.031	0.0032	0.019		mg/Kg	1	11/6/2016 11:24:33 PM	28398
Pyrene	0.031	0.0033	0.024		mg/Kg	1	11/6/2016 11:24:33 PM	28398
Benz(a)anthracene	0.012	0.00048	0.0096		mg/Kg	1	11/6/2016 11:24:33 PM	28398
Chrysene	0.0074	0.0013	0.0096	J	mg/Kg	1	11/6/2016 11:24:33 PM	28398
Benzo(b)fluoranthene	0.0077	0.00068	0.0096	J	mg/Kg	1	11/6/2016 11:24:33 PM	28398
Benzo(k)fluoranthene	0.0086	0.00038	0.0096	J	mg/Kg	1	11/6/2016 11:24:33 PM	28398
Benzo(a)pyrene	0.015	0.00038	0.0096		mg/Kg	1	11/6/2016 11:24:33 PM	28398
Dibenz(a,h)anthracene	0.0043	0.00048	0.0096	J	mg/Kg	1	11/6/2016 11:24:33 PM	28398
Benzo(g,h,i)perylene	0.010	0.00058	0.0096		mg/Kg	1	11/6/2016 11:24:33 PM	28398
Indeno(1,2,3-cd)pyrene	0.023	0.00077	0.0096		mg/Kg	1	11/6/2016 11:24:33 PM	28398
Surr: Benzo(e)pyrene	48.4	0	27.4-110		%Rec	1	11/6/2016 11:24:33 PM	28398
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.97	2.4		mg/Kg	1	10/31/2016 12:36:10 PM	28363
Arsenic	3.6	0.86	2.4		mg/Kg	1	10/31/2016 12:36:10 PM	28363
Chromium	5.5	0.091	0.29		mg/Kg	1	10/31/2016 12:36:10 PM	28363
Iron	8400	37	120		mg/Kg	50	10/31/2016 1:52:02 PM	28363
Lead	2.0	0.17	0.24		mg/Kg	1	10/31/2016 12:36:10 PM	28363
Manganese	230	0.052	0.097		mg/Kg	1	10/31/2016 12:36:10 PM	28363
Thallium	ND	0.75	2.4		mg/Kg	1	10/31/2016 12:36:10 PM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.015	0.019		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Toluene	ND	0.0023	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Ethylbenzene	ND	0.0031	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.012	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,2,4-Trimethylbenzene	ND	0.0028	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,3,5-Trimethylbenzene	ND	0.0028	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	Page 31 of 119
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
R RPD outside accepted recovery limits	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-011**Client Sample ID:** SB-11 (0-5)**Collection Date:** 10/26/2016 8:02:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.010	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,2-Dibromoethane (EDB)	ND	0.0027	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Naphthalene	ND	0.0060	0.077		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1-Methylnaphthalene	ND	0.0085	0.15		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
2-Methylnaphthalene	ND	0.0082	0.15		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Acetone	ND	0.050	0.58		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Bromobenzene	ND	0.0031	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Bromodichloromethane	ND	0.0022	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Bromoform	ND	0.0047	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Bromomethane	0.026	0.014	0.12	J	mg/Kg	1	10/31/2016 6:30:21 PM	S38351
2-Butanone	0.040	0.022	0.38	J	mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Carbon disulfide	ND	0.013	0.38		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Carbon tetrachloride	ND	0.0025	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Chlorobenzene	ND	0.0031	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Chloroethane	ND	0.0077	0.077		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Chloroform	ND	0.0029	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Chloromethane	0.013	0.0034	0.12	J	mg/Kg	1	10/31/2016 6:30:21 PM	S38351
2-Chlorotoluene	ND	0.0028	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
4-Chlorotoluene	ND	0.0034	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
cis-1,2-DCE	ND	0.0022	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
cis-1,3-Dichloropropene	ND	0.0035	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,2-Dibromo-3-chloropropane	ND	0.012	0.077		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Dibromochloromethane	ND	0.0035	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Dibromomethane	ND	0.0033	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,2-Dichlorobenzene	ND	0.0033	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,3-Dichlorobenzene	ND	0.0031	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,4-Dichlorobenzene	ND	0.0048	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Dichlorodifluoromethane	ND	0.012	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,1-Dichloroethane	ND	0.0021	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,1-Dichloroethene	ND	0.013	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,2-Dichloropropane	ND	0.0032	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,3-Dichloropropane	ND	0.0043	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
2,2-Dichloropropane	ND	0.0022	0.077		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,1-Dichloropropene	ND	0.0030	0.077		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Hexachlorobutadiene	ND	0.0047	0.077		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
2-Hexanone	ND	0.021	0.38		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Isopropylbenzene	ND	0.0033	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
4-Isopropyltoluene	ND	0.0034	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
4-Methyl-2-pentanone	ND	0.011	0.38		mg/Kg	1	10/31/2016 6:30:21 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-011**Client Sample ID:** SB-11 (0-5)**Collection Date:** 10/26/2016 8:02:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.026	0.011	0.12	J	mg/Kg	1	10/31/2016 6:30:21 PM	S38351
n-Butylbenzene	ND	0.0034	0.12		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
n-Propylbenzene	ND	0.0030	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
sec-Butylbenzene	ND	0.0053	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Styrene	ND	0.0034	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
tert-Butylbenzene	ND	0.0032	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0037	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0062	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Tetrachloroethene (PCE)	ND	0.0032	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
trans-1,2-DCE	ND	0.011	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
trans-1,3-Dichloropropene	ND	0.0056	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,2,3-Trichlorobenzene	ND	0.0057	0.077		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,2,4-Trichlorobenzene	ND	0.0041	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,1,1-Trichloroethane	ND	0.0023	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,1,2-Trichloroethane	ND	0.0045	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Trichloroethene (TCE)	ND	0.0041	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Trichlorofluoromethane	ND	0.0029	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
1,2,3-Trichloropropane	ND	0.0066	0.077		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Vinyl chloride	ND	0.0031	0.038		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Xylenes, Total	ND	0.0073	0.077		mg/Kg	1	10/31/2016 6:30:21 PM	S38351
Surr: Dibromofluoromethane	101	70-130		%Rec	1	10/31/2016 6:30:21 PM	S38351	
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%Rec	1	10/31/2016 6:30:21 PM	S38351	
Surr: Toluene-d8	97.9	70-130		%Rec	1	10/31/2016 6:30:21 PM	S38351	
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	10/31/2016 6:30:21 PM	S38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.58	3.8		mg/Kg	1	10/31/2016 6:30:21 PM	GS3835
Surr: BFB	100	0	70-130		%Rec	1	10/31/2016 6:30:21 PM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-012**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM**Client Sample ID:** SB-12 (0-5)**Collection Date:** 10/26/2016 8:52:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	44	1.8	9.6		mg/Kg	1	11/2/2016 11:42:16 PM	28372
Motor Oil Range Organics (MRO)	110	48	48		mg/Kg	1	11/2/2016 11:42:16 PM	28372
Surr: DNOP	102	0	70-130		%Rec	1	11/2/2016 11:42:16 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	ND	1.8	13	D	mg/Kg	10	11/7/2016 12:22:59 AM	28398
1-Methylnaphthalene	ND	1.9	13	D	mg/Kg	10	11/7/2016 12:22:59 AM	28398
2-Methylnaphthalene	ND	1.8	13	D	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Acenaphthylene	ND	1.7	13	D	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Acenaphthene	ND	1.5	13	D	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Fluorene	ND	0.17	1.5	D	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Phenanthrene	0.48	0.081	0.76	JD	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Anthracene	ND	0.12	0.76	D	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Fluoranthene	0.54	0.17	1.0	JD	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Pyrene	1.0	0.17	1.3	JD	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Benz(a)anthracene	0.39	0.025	0.51	JD	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Chrysene	0.41	0.071	0.51	JD	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Benzo(b)fluoranthene	0.29	0.036	0.51	JD	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Benzo(k)fluoranthene	0.27	0.020	0.51	JD	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Benzo(a)pyrene	0.72	0.020	0.51	D	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Dibenz(a,h)anthracene	0.15	0.025	0.51	JD	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Benzo(g,h,i)perylene	0.63	0.030	0.51	D	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Indeno(1,2,3-cd)pyrene	0.97	0.041	0.51	D	mg/Kg	10	11/7/2016 12:22:59 AM	28398
Surr: Benzo(e)pyrene	0	0	27.4-110	SD	%Rec	10	11/7/2016 12:22:59 AM	28398
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.99	2.5		mg/Kg	1	10/31/2016 12:39:59 PM	28363
Arsenic	2.6	0.87	2.5		mg/Kg	1	10/31/2016 12:39:59 PM	28363
Chromium	3.3	0.093	0.29		mg/Kg	1	10/31/2016 12:39:59 PM	28363
Iron	7800	37	120		mg/Kg	50	10/31/2016 1:53:34 PM	28363
Lead	490	8.5	12		mg/Kg	50	10/31/2016 1:53:34 PM	28363
Manganese	110	0.053	0.098		mg/Kg	1	10/31/2016 12:39:59 PM	28363
Thallium	ND	0.76	2.5		mg/Kg	1	10/31/2016 12:39:59 PM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.014	0.017		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Toluene	0.0020	0.0020	0.034	J	mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Ethylbenzene	ND	0.0028	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.011	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,2,4-Trimethylbenzene	ND	0.0025	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,3,5-Trimethylbenzene	ND	0.0025	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-012**Client Sample ID:** SB-12 (0-5)**Collection Date:** 10/26/2016 8:52:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0090	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,2-Dibromoethane (EDB)	ND	0.0025	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Naphthalene	0.023	0.0054	0.069	J	mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1-Methylnaphthalene	0.0079	0.0077	0.14	J	mg/Kg	1	10/31/2016 6:58:56 PM	S38351
2-Methylnaphthalene	0.014	0.0074	0.14	J	mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Acetone	0.10	0.045	0.52	J	mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Bromobenzene	ND	0.0028	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Bromodichloromethane	ND	0.0020	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Bromoform	ND	0.0042	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Bromomethane	0.032	0.013	0.10	J	mg/Kg	1	10/31/2016 6:58:56 PM	S38351
2-Butanone	0.032	0.020	0.34	J	mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Carbon disulfide	ND	0.011	0.34		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Carbon tetrachloride	ND	0.0023	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Chlorobenzene	ND	0.0028	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Chloroethane	ND	0.0069	0.069		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Chloroform	0.017	0.0026	0.034	J	mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Chloromethane	ND	0.0031	0.10		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
2-Chlorotoluene	ND	0.0025	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
4-Chlorotoluene	ND	0.0030	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
cis-1,2-DCE	ND	0.0020	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
cis-1,3-Dichloropropene	ND	0.0032	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,2-Dibromo-3-chloropropane	ND	0.011	0.069		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Dibromochloromethane	ND	0.0031	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Dibromomethane	ND	0.0030	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,2-Dichlorobenzene	ND	0.0030	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,3-Dichlorobenzene	ND	0.0028	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,4-Dichlorobenzene	ND	0.0043	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Dichlorodifluoromethane	ND	0.011	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,1-Dichloroethane	ND	0.0019	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,1-Dichloroethene	ND	0.011	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,2-Dichloropropane	ND	0.0029	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,3-Dichloropropane	ND	0.0039	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
2,2-Dichloropropane	ND	0.0020	0.069		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,1-Dichloropropene	ND	0.0027	0.069		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Hexachlorobutadiene	ND	0.0042	0.069		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
2-Hexanone	ND	0.019	0.34		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Isopropylbenzene	ND	0.0030	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
4-Isopropyltoluene	ND	0.0031	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
4-Methyl-2-pentanone	ND	0.010	0.34		mg/Kg	1	10/31/2016 6:58:56 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-012**Client Sample ID:** SB-12 (0-5)**Collection Date:** 10/26/2016 8:52:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.028	0.0099	0.10	J	mg/Kg	1	10/31/2016 6:58:56 PM	S38351
n-Butylbenzene	ND	0.0031	0.10		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
n-Propylbenzene	ND	0.0027	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
sec-Butylbenzene	ND	0.0048	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Styrene	ND	0.0031	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
tert-Butylbenzene	ND	0.0029	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0033	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0056	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Tetrachloroethene (PCE)	ND	0.0029	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
trans-1,2-DCE	ND	0.0097	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
trans-1,3-Dichloropropene	ND	0.0050	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,2,3-Trichlorobenzene	ND	0.0052	0.069		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,2,4-Trichlorobenzene	ND	0.0037	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,1,1-Trichloroethane	ND	0.0021	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,1,2-Trichloroethane	ND	0.0041	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Trichloroethene (TCE)	ND	0.0037	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Trichlorofluoromethane	ND	0.0026	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
1,2,3-Trichloropropane	ND	0.0060	0.069		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Vinyl chloride	ND	0.0028	0.034		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Xylenes, Total	ND	0.0065	0.069		mg/Kg	1	10/31/2016 6:58:56 PM	S38351
Surr: Dibromofluoromethane	100	70-130			%Rec	1	10/31/2016 6:58:56 PM	S38351
Surr: 1,2-Dichloroethane-d4	97.4	70-130			%Rec	1	10/31/2016 6:58:56 PM	S38351
Surr: Toluene-d8	94.7	70-130			%Rec	1	10/31/2016 6:58:56 PM	S38351
Surr: 4-Bromofluorobenzene	94.1	70-130			%Rec	1	10/31/2016 6:58:56 PM	S38351
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	0.54	0.52	3.4	J	mg/Kg	1	10/31/2016 6:58:56 PM	GS3835
Surr: BFB	99.2	0	70-130		%Rec	1	10/31/2016 6:58:56 PM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-013**Client Sample ID:** SB-13 (10-15)**Collection Date:** 10/26/2016 9:30:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	ND	1.7	9.3		mg/Kg	1	11/1/2016 8:27:10 PM	28372
Motor Oil Range Organics (MRO)	ND	47	47		mg/Kg	1	11/1/2016 8:27:10 PM	28372
Surr: DNOP	96.7	0	70-130		%Rec	1	11/1/2016 8:27:10 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.034	0.25		mg/Kg	1	11/7/2016 12:52:12 AM	28398
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/7/2016 12:52:12 AM	28398
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Acenaphthylene	ND	0.033	0.25		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Acenaphthene	ND	0.030	0.25		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Phenanthrene	0.0035	0.0016	0.015	J	mg/Kg	1	11/7/2016 12:52:12 AM	28398
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Fluoranthene	ND	0.0033	0.020		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Pyrene	ND	0.0034	0.025		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Benz(a)anthracene	ND	0.00050	0.0099		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Chrysene	ND	0.0014	0.0099		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Benzo(b)fluoranthene	ND	0.00070	0.0099		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Benzo(k)fluoranthene	ND	0.00040	0.0099		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Benzo(a)pyrene	ND	0.00040	0.0099		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Dibenz(a,h)anthracene	ND	0.00050	0.0099		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Benzo(g,h,i)perylene	ND	0.00059	0.0099		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Indeno(1,2,3-cd)pyrene	ND	0.00079	0.0099		mg/Kg	1	11/7/2016 12:52:12 AM	28398
Surr: Benzo(e)pyrene	56.0	0	27.4-110		%Rec	1	11/7/2016 12:52:12 AM	28398
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	1.0	2.5		mg/Kg	1	10/31/2016 12:43:31 PM	28363
Arsenic	1.2	0.89	2.5	J	mg/Kg	1	10/31/2016 12:43:31 PM	28363
Chromium	3.7	0.094	0.30		mg/Kg	1	10/31/2016 12:43:31 PM	28363
Iron	5300	38	120		mg/Kg	50	10/31/2016 1:55:05 PM	28363
Lead	2.1	0.17	0.25		mg/Kg	1	10/31/2016 12:43:31 PM	28363
Manganese	35	0.053	0.10		mg/Kg	1	10/31/2016 12:43:31 PM	28363
Thallium	ND	0.77	2.5		mg/Kg	1	10/31/2016 12:43:31 PM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.013	0.016		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Toluene	ND	0.0019	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Ethylbenzene	ND	0.0026	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.010	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,2,4-Trimethylbenzene	ND	0.0024	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,3,5-Trimethylbenzene	ND	0.0023	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P Sample pH Not In Range
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-013**Client Sample ID:** SB-13 (10-15)**Collection Date:** 10/26/2016 9:30:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0084	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,2-Dibromoethane (EDB)	ND	0.0023	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Naphthalene	ND	0.0050	0.064		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1-Methylnaphthalene	ND	0.0072	0.13		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
2-Methylnaphthalene	ND	0.0069	0.13		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Acetone	0.043	0.042	0.48	J	mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Bromobenzene	ND	0.0026	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Bromodichloromethane	ND	0.0019	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Bromoform	ND	0.0039	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Bromomethane	0.019	0.012	0.097	J	mg/Kg	1	10/31/2016 7:27:34 PM	S38351
2-Butanone	ND	0.018	0.32		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Carbon disulfide	ND	0.011	0.32		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Carbon tetrachloride	ND	0.0021	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Chlorobenzene	ND	0.0026	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Chloroethane	ND	0.0064	0.064		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Chloroform	ND	0.0024	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Chloromethane	ND	0.0029	0.097		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
2-Chlorotoluene	ND	0.0024	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
4-Chlorotoluene	ND	0.0028	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
cis-1,2-DCE	ND	0.0019	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
cis-1,3-Dichloropropene	ND	0.0030	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,2-Dibromo-3-chloropropane	ND	0.0099	0.064		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Dibromochloromethane	ND	0.0029	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Dibromomethane	ND	0.0028	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,2-Dichlorobenzene	ND	0.0028	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,3-Dichlorobenzene	ND	0.0026	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,4-Dichlorobenzene	ND	0.0040	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Dichlorodifluoromethane	ND	0.010	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,1-Dichloroethane	ND	0.0017	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,1-Dichloroethene	ND	0.011	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,2-Dichloropropane	ND	0.0027	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,3-Dichloropropane	ND	0.0037	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
2,2-Dichloropropane	ND	0.0018	0.064		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,1-Dichloropropene	ND	0.0026	0.064		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Hexachlorobutadiene	ND	0.0039	0.064		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
2-Hexanone	ND	0.018	0.32		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Isopropylbenzene	ND	0.0028	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
4-Isopropyltoluene	ND	0.0029	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
4-Methyl-2-pentanone	ND	0.0094	0.32		mg/Kg	1	10/31/2016 7:27:34 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-013**Client Sample ID:** SB-13 (10-15)**Collection Date:** 10/26/2016 9:30:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.025	0.0093	0.097	J	mg/Kg	1	10/31/2016 7:27:34 PM	S38351
n-Butylbenzene	ND	0.0028	0.097		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
n-Propylbenzene	ND	0.0025	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
sec-Butylbenzene	ND	0.0045	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Styrene	ND	0.0029	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
tert-Butylbenzene	ND	0.0027	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0031	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0052	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Tetrachloroethene (PCE)	ND	0.0027	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
trans-1,2-DCE	ND	0.0090	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
trans-1,3-Dichloropropene	ND	0.0047	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,2,3-Trichlorobenzene	ND	0.0048	0.064		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,2,4-Trichlorobenzene	ND	0.0034	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,1,1-Trichloroethane	ND	0.0020	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,1,2-Trichloroethane	ND	0.0038	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Trichloroethene (TCE)	ND	0.0035	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Trichlorofluoromethane	ND	0.0024	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
1,2,3-Trichloropropane	ND	0.0056	0.064		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Vinyl chloride	ND	0.0026	0.032		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Xylenes, Total	ND	0.0061	0.064		mg/Kg	1	10/31/2016 7:27:34 PM	S38351
Surr: Dibromofluoromethane	101	70-130		%Rec	1	10/31/2016 7:27:34 PM	S38351	
Surr: 1,2-Dichloroethane-d4	95.0	70-130		%Rec	1	10/31/2016 7:27:34 PM	S38351	
Surr: Toluene-d8	98.0	70-130		%Rec	1	10/31/2016 7:27:34 PM	S38351	
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	10/31/2016 7:27:34 PM	S38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.48	3.2		mg/Kg	1	10/31/2016 7:27:34 PM	GS3835
Surr: BFB	105	0	70-130		%Rec	1	10/31/2016 7:27:34 PM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-014**Client Sample ID:** SB-14 (5-10)**Collection Date:** 10/26/2016 10:03:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	1.8	1.8	9.5	J	mg/Kg	1	11/1/2016 8:49:07 PM	28372
Motor Oil Range Organics (MRO)	ND	47	47		mg/Kg	1	11/1/2016 8:49:07 PM	28372
Surr: DNOP	94.3	0	70-130		%Rec	1	11/1/2016 8:49:07 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	0.036	0.034	0.24	J	mg/Kg	1	11/7/2016 1:21:26 AM	28398
1-Methylnaphthalene	ND	0.036	0.24		mg/Kg	1	11/7/2016 1:21:26 AM	28398
2-Methylnaphthalene	ND	0.034	0.24		mg/Kg	1	11/7/2016 1:21:26 AM	28398
Acenaphthylene	ND	0.033	0.24		mg/Kg	1	11/7/2016 1:21:26 AM	28398
Acenaphthene	ND	0.030	0.24		mg/Kg	1	11/7/2016 1:21:26 AM	28398
Fluorene	0.0068	0.0032	0.029	J	mg/Kg	1	11/7/2016 1:21:26 AM	28398
Phenanthrene	0.045	0.0016	0.015		mg/Kg	1	11/7/2016 1:21:26 AM	28398
Anthracene	0.0078	0.0023	0.015	J	mg/Kg	1	11/7/2016 1:21:26 AM	28398
Fluoranthene	0.034	0.0032	0.019		mg/Kg	1	11/7/2016 1:21:26 AM	28398
Pyrene	0.030	0.0033	0.024		mg/Kg	1	11/7/2016 1:21:26 AM	28398
Benz(a)anthracene	0.012	0.00049	0.0097		mg/Kg	1	11/7/2016 1:21:26 AM	28398
Chrysene	0.0054	0.0014	0.0097	J	mg/Kg	1	11/7/2016 1:21:26 AM	28398
Benzo(b)fluoranthene	0.0046	0.00069	0.0097	J	mg/Kg	1	11/7/2016 1:21:26 AM	28398
Benzo(k)fluoranthene	0.0056	0.00039	0.0097	J	mg/Kg	1	11/7/2016 1:21:26 AM	28398
Benzo(a)pyrene	0.011	0.00039	0.0097		mg/Kg	1	11/7/2016 1:21:26 AM	28398
Dibenz(a,h)anthracene	0.0012	0.00049	0.0097	J	mg/Kg	1	11/7/2016 1:21:26 AM	28398
Benzo(g,h,i)perylene	0.0063	0.00058	0.0097	J	mg/Kg	1	11/7/2016 1:21:26 AM	28398
Indeno(1,2,3-cd)pyrene	ND	0.00078	0.0097		mg/Kg	1	11/7/2016 1:21:26 AM	28398
Surr: Benzo(e)pyrene	52.8	0	27.4-110		%Rec	1	11/7/2016 1:21:26 AM	28398
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	1.0	2.5		mg/Kg	1	10/31/2016 12:46:54 PM	28363
Arsenic	1.5	0.89	2.5	J	mg/Kg	1	10/31/2016 12:46:54 PM	28363
Chromium	5.5	0.094	0.30		mg/Kg	1	10/31/2016 12:46:54 PM	28363
Iron	9800	38	120		mg/Kg	50	10/31/2016 1:56:35 PM	28363
Lead	2.9	0.17	0.25		mg/Kg	1	10/31/2016 12:46:54 PM	28363
Manganese	93	0.053	0.10		mg/Kg	1	10/31/2016 12:46:54 PM	28363
Thallium	ND	0.77	2.5		mg/Kg	1	10/31/2016 12:46:54 PM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.011	0.013		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Toluene	ND	0.0016	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Ethylbenzene	ND	0.0022	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.0084	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,2,4-Trimethylbenzene	ND	0.0020	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,3,5-Trimethylbenzene	ND	0.0019	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	Page 40 of 119
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
R RPD outside accepted recovery limits	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-014**Client Sample ID:** SB-14 (5-10)**Collection Date:** 10/26/2016 10:03:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0070	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,2-Dibromoethane (EDB)	ND	0.0019	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Naphthalene	0.021	0.0042	0.053	J	mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1-Methylnaphthalene	0.0068	0.0059	0.11	J	mg/Kg	1	10/31/2016 7:56:16 PM	S38351
2-Methylnaphthalene	0.0099	0.0057	0.11	J	mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Acetone	ND	0.035	0.40		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Bromobenzene	ND	0.0022	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Bromodichloromethane	ND	0.0016	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Bromoform	ND	0.0032	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Bromomethane	0.012	0.0098	0.080	J	mg/Kg	1	10/31/2016 7:56:16 PM	S38351
2-Butanone	ND	0.015	0.27		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Carbon disulfide	ND	0.0088	0.27		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Carbon tetrachloride	ND	0.0018	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Chlorobenzene	ND	0.0022	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Chloroethane	ND	0.0053	0.053		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Chloroform	ND	0.0020	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Chloromethane	ND	0.0024	0.080		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
2-Chlorotoluene	ND	0.0020	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
4-Chlorotoluene	ND	0.0024	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
cis-1,2-DCE	ND	0.0016	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
cis-1,3-Dichloropropene	ND	0.0025	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,2-Dibromo-3-chloropropane	ND	0.0082	0.053		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Dibromochloromethane	ND	0.0024	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Dibromomethane	ND	0.0023	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,2-Dichlorobenzene	ND	0.0023	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,3-Dichlorobenzene	ND	0.0022	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,4-Dichlorobenzene	ND	0.0033	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Dichlorodifluoromethane	ND	0.0083	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,1-Dichloroethane	ND	0.0014	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,1-Dichloroethene	ND	0.0087	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,2-Dichloropropane	ND	0.0022	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,3-Dichloropropane	ND	0.0030	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
2,2-Dichloropropane	ND	0.0015	0.053		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,1-Dichloropropene	ND	0.0021	0.053		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Hexachlorobutadiene	ND	0.0033	0.053		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
2-Hexanone	ND	0.015	0.27		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Isopropylbenzene	ND	0.0023	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
4-Isopropyltoluene	ND	0.0024	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
4-Methyl-2-pentanone	ND	0.0078	0.27		mg/Kg	1	10/31/2016 7:56:16 PM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-014**Client Sample ID:** SB-14 (5-10)**Collection Date:** 10/26/2016 10:03:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.018	0.0077	0.080	J	mg/Kg	1	10/31/2016 7:56:16 PM	S38351
n-Butylbenzene	ND	0.0024	0.080		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
n-Propylbenzene	0.0042	0.0021	0.027	J	mg/Kg	1	10/31/2016 7:56:16 PM	S38351
sec-Butylbenzene	0.0046	0.0037	0.027	J	mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Styrene	ND	0.0024	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
tert-Butylbenzene	ND	0.0022	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0026	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0043	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Tetrachloroethene (PCE)	ND	0.0022	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
trans-1,2-DCE	ND	0.0075	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
trans-1,3-Dichloropropene	ND	0.0039	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,2,3-Trichlorobenzene	ND	0.0040	0.053		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,2,4-Trichlorobenzene	ND	0.0029	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,1,1-Trichloroethane	ND	0.0016	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,1,2-Trichloroethane	ND	0.0031	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Trichloroethene (TCE)	ND	0.0029	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Trichlorofluoromethane	ND	0.0020	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
1,2,3-Trichloropropane	ND	0.0046	0.053		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Vinyl chloride	ND	0.0022	0.027		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Xylenes, Total	ND	0.0051	0.053		mg/Kg	1	10/31/2016 7:56:16 PM	S38351
Surr: Dibromofluoromethane	101	70-130		%Rec	1	10/31/2016 7:56:16 PM	S38351	
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%Rec	1	10/31/2016 7:56:16 PM	S38351	
Surr: Toluene-d8	93.3	70-130		%Rec	1	10/31/2016 7:56:16 PM	S38351	
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	10/31/2016 7:56:16 PM	S38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.40	2.7		mg/Kg	1	10/31/2016 7:56:16 PM	GS3835
Surr: BFB	99.7	0	70-130		%Rec	1	10/31/2016 7:56:16 PM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-015**Client Sample ID:** SB-15 (3-6)**Collection Date:** 10/26/2016 10:35:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	2.2	1.7	9.2	J	mg/Kg	1	11/1/2016 9:11:00 PM	28372
Motor Oil Range Organics (MRO)	ND	46	46		mg/Kg	1	11/1/2016 9:11:00 PM	28372
Surr: DNOP	93.6	0	70-130		%Rec	1	11/1/2016 9:11:00 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 1:50:38 AM	28398
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/7/2016 1:50:38 AM	28398
2-Methylnaphthalene	0.039	0.035	0.25	J	mg/Kg	1	11/7/2016 1:50:38 AM	28398
Acenaphthylene	ND	0.034	0.25		mg/Kg	1	11/7/2016 1:50:38 AM	28398
Acenaphthene	ND	0.031	0.25		mg/Kg	1	11/7/2016 1:50:38 AM	28398
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/7/2016 1:50:38 AM	28398
Phenanthrene	0.0040	0.0016	0.015	J	mg/Kg	1	11/7/2016 1:50:38 AM	28398
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/7/2016 1:50:38 AM	28398
Fluoranthene	ND	0.0033	0.020		mg/Kg	1	11/7/2016 1:50:38 AM	28398
Pyrene	ND	0.0034	0.025		mg/Kg	1	11/7/2016 1:50:38 AM	28398
Benz(a)anthracene	ND	0.00050	0.010		mg/Kg	1	11/7/2016 1:50:38 AM	28398
Chrysene	ND	0.0014	0.010		mg/Kg	1	11/7/2016 1:50:38 AM	28398
Benzo(b)fluoranthene	ND	0.00071	0.010		mg/Kg	1	11/7/2016 1:50:38 AM	28398
Benzo(k)fluoranthene	0.00050	0.00040	0.010	J	mg/Kg	1	11/7/2016 1:50:38 AM	28398
Benzo(a)pyrene	0.00075	0.00040	0.010	J	mg/Kg	1	11/7/2016 1:50:38 AM	28398
Dibenz(a,h)anthracene	ND	0.00050	0.010		mg/Kg	1	11/7/2016 1:50:38 AM	28398
Benzo(g,h,i)perylene	0.0010	0.00060	0.010	J	mg/Kg	1	11/7/2016 1:50:38 AM	28398
Indeno(1,2,3-cd)pyrene	0.0020	0.00080	0.010	J	mg/Kg	1	11/7/2016 1:50:38 AM	28398
Surr: Benzo(e)pyrene	55.7	0	27.4-110		%Rec	1	11/7/2016 1:50:38 AM	28398
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	1.0	2.5		mg/Kg	1	10/31/2016 12:50:28 PM	28363
Arsenic	2.9	0.88	2.5		mg/Kg	1	10/31/2016 12:50:28 PM	28363
Chromium	7.2	0.094	0.30		mg/Kg	1	10/31/2016 12:50:28 PM	28363
Iron	12000	37	120		mg/Kg	50	10/31/2016 1:58:08 PM	28363
Lead	3.4	0.17	0.25		mg/Kg	1	10/31/2016 12:50:28 PM	28363
Manganese	330	0.11	0.20		mg/Kg	2	10/31/2016 12:52:15 PM	28363
Thallium	ND	0.77	2.5		mg/Kg	1	10/31/2016 12:50:28 PM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.014	0.018		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Toluene	ND	0.0021	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Ethylbenzene	ND	0.0029	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.011	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,2,4-Trimethylbenzene	0.0029	0.0026	0.036	J	mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,3,5-Trimethylbenzene	ND	0.0026	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-015**Client Sample ID:** SB-15 (3-6)**Collection Date:** 10/26/2016 10:35:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0093	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,2-Dibromoethane (EDB)	ND	0.0025	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Naphthalene	0.0094	0.0056	0.071	J	mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1-Methylnaphthalene	0.012	0.0079	0.14	J	mg/Kg	1	11/1/2016 1:12:17 AM	S38351
2-Methylnaphthalene	0.022	0.0076	0.14	J	mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Acetone	0.074	0.046	0.53	J	mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Bromobenzene	ND	0.0029	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Bromodichloromethane	ND	0.0021	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Bromoform	ND	0.0043	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Bromomethane	0.019	0.013	0.11	J	mg/Kg	1	11/1/2016 1:12:17 AM	S38351
2-Butanone	0.051	0.020	0.36	J	mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Carbon disulfide	ND	0.012	0.36		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Carbon tetrachloride	ND	0.0023	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Chlorobenzene	ND	0.0029	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Chloroethane	ND	0.0071	0.071		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Chloroform	ND	0.0027	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Chloromethane	ND	0.0032	0.11		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
2-Chlorotoluene	ND	0.0026	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
4-Chlorotoluene	ND	0.0032	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
cis-1,2-DCE	ND	0.0021	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
cis-1,3-Dichloropropene	ND	0.0033	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,2-Dibromo-3-chloropropane	ND	0.011	0.071		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Dibromochloromethane	ND	0.0032	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Dibromomethane	ND	0.0031	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,2-Dichlorobenzene	ND	0.0031	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,3-Dichlorobenzene	ND	0.0029	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,4-Dichlorobenzene	ND	0.0044	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Dichlorodifluoromethane	ND	0.011	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,1-Dichloroethane	ND	0.0019	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,1-Dichloroethene	ND	0.012	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,2-Dichloropropane	ND	0.0030	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,3-Dichloropropane	ND	0.0040	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
2,2-Dichloropropane	ND	0.0020	0.071		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,1-Dichloropropene	ND	0.0028	0.071		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Hexachlorobutadiene	ND	0.0044	0.071		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
2-Hexanone	ND	0.019	0.36		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Isopropylbenzene	ND	0.0031	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
4-Isopropyltoluene	ND	0.0032	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
4-Methyl-2-pentanone	ND	0.010	0.36		mg/Kg	1	11/1/2016 1:12:17 AM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-015**Client Sample ID:** SB-15 (3-6)**Collection Date:** 10/26/2016 10:35:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.023	0.010	0.11	J	mg/Kg	1	11/1/2016 1:12:17 AM	S38351
n-Butylbenzene	ND	0.0032	0.11		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
n-Propylbenzene	0.0072	0.0027	0.036	J	mg/Kg	1	11/1/2016 1:12:17 AM	S38351
sec-Butylbenzene	0.0070	0.0049	0.036	J	mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Styrene	ND	0.0032	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
tert-Butylbenzene	ND	0.0030	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0034	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0058	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Tetrachloroethene (PCE)	ND	0.0030	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
trans-1,2-DCE	ND	0.010	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
trans-1,3-Dichloropropene	ND	0.0052	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,2,3-Trichlorobenzene	ND	0.0053	0.071		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,2,4-Trichlorobenzene	ND	0.0038	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,1,1-Trichloroethane	ND	0.0022	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,1,2-Trichloroethane	ND	0.0042	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Trichloroethene (TCE)	ND	0.0038	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Trichlorofluoromethane	ND	0.0027	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
1,2,3-Trichloropropane	ND	0.0062	0.071		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Vinyl chloride	ND	0.0029	0.036		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Xylenes, Total	ND	0.0067	0.071		mg/Kg	1	11/1/2016 1:12:17 AM	S38351
Surr: Dibromofluoromethane	100	70-130			%Rec	1	11/1/2016 1:12:17 AM	S38351
Surr: 1,2-Dichloroethane-d4	92.3	70-130			%Rec	1	11/1/2016 1:12:17 AM	S38351
Surr: Toluene-d8	94.6	70-130			%Rec	1	11/1/2016 1:12:17 AM	S38351
Surr: 4-Bromofluorobenzene	96.2	70-130			%Rec	1	11/1/2016 1:12:17 AM	S38351
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	0.76	0.54	3.6	J	mg/Kg	1	11/1/2016 1:12:17 AM	GS3835
Surr: BFB	100	0	70-130		%Rec	1	11/1/2016 1:12:17 AM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-016**Matrix:** MEOH (SOIL)**Client Sample ID:** SB-16 (5-10)**Collection Date:** 10/26/2016 11:06:00 AM**Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	120	1.8	9.9		mg/Kg	1	11/1/2016 9:32:58 PM	28372
Motor Oil Range Organics (MRO)	ND	50	50		mg/Kg	1	11/1/2016 9:32:58 PM	28372
Surr: DNOP	94.2	0	70-130		%Rec	1	11/1/2016 9:32:58 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 2:19:53 AM	28398
1-Methylnaphthalene	0.46	0.037	0.25		mg/Kg	1	11/7/2016 2:19:53 AM	28398
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 2:19:53 AM	28398
Acenaphthylene	ND	0.034	0.25		mg/Kg	1	11/7/2016 2:19:53 AM	28398
Acenaphthene	ND	0.031	0.25		mg/Kg	1	11/7/2016 2:19:53 AM	28398
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/7/2016 2:19:53 AM	28398
Phenanthrene	0.030	0.0016	0.015		mg/Kg	1	11/7/2016 2:19:53 AM	28398
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/7/2016 2:19:53 AM	28398
Fluoranthene	0.0035	0.0033	0.020	J	mg/Kg	1	11/7/2016 2:19:53 AM	28398
Pyrene	0.0053	0.0034	0.025	J	mg/Kg	1	11/7/2016 2:19:53 AM	28398
Benz(a)anthracene	0.00076	0.00050	0.010	J	mg/Kg	1	11/7/2016 2:19:53 AM	28398
Chrysene	0.0035	0.0014	0.010	J	mg/Kg	1	11/7/2016 2:19:53 AM	28398
Benzo(b)fluoranthene	ND	0.00071	0.010		mg/Kg	1	11/7/2016 2:19:53 AM	28398
Benzo(k)fluoranthene	0.00050	0.00040	0.010	J	mg/Kg	1	11/7/2016 2:19:53 AM	28398
Benzo(a)pyrene	0.00076	0.00040	0.010	J	mg/Kg	1	11/7/2016 2:19:53 AM	28398
Dibenz(a,h)anthracene	ND	0.00050	0.010		mg/Kg	1	11/7/2016 2:19:53 AM	28398
Benzo(g,h,i)perylene	0.00076	0.00061	0.010	J	mg/Kg	1	11/7/2016 2:19:53 AM	28398
Indeno(1,2,3-cd)pyrene	ND	0.00081	0.010		mg/Kg	1	11/7/2016 2:19:53 AM	28398
Surr: Benzo(e)pyrene	57.4	0	27.4-110		%Rec	1	11/7/2016 2:19:53 AM	28398
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	2.0	4.9		mg/Kg	2	10/31/2016 1:02:13 PM	28363
Arsenic	4.2	1.7	4.9	J	mg/Kg	2	10/31/2016 1:02:13 PM	28363
Chromium	8.8	0.18	0.58		mg/Kg	2	10/31/2016 1:02:13 PM	28363
Iron	11000	37	120		mg/Kg	50	10/31/2016 1:59:40 PM	28363
Lead	12	0.34	0.49		mg/Kg	2	10/31/2016 1:02:13 PM	28363
Manganese	120	0.10	0.19		mg/Kg	2	10/31/2016 1:02:13 PM	28363
Thallium	ND	1.5	4.9		mg/Kg	2	10/31/2016 1:02:13 PM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.013	0.016		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Toluene	0.0034	0.0019	0.031	J	mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Ethylbenzene	0.086	0.0026	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.0099	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,2,4-Trimethylbenzene	0.0028	0.0023	0.031	J	mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,3,5-Trimethylbenzene	ND	0.0023	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	Page 46 of 119
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
R RPD outside accepted recovery limits	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-016**Client Sample ID:** SB-16 (5-10)**Collection Date:** 10/26/2016 11:06:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0082	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,2-Dibromoethane (EDB)	ND	0.0022	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Naphthalene	0.013	0.0049	0.063	J	mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1-Methylnaphthalene	0.66	0.0070	0.13		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
2-Methylnaphthalene	0.0072	0.0067	0.13	J	mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Acetone	0.053	0.041	0.47	J	mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Bromobenzene	ND	0.0025	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Bromodichloromethane	ND	0.0018	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Bromoform	ND	0.0038	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Bromomethane	0.016	0.012	0.094	J	mg/Kg	1	11/1/2016 1:40:55 AM	S38351
2-Butanone	0.083	0.018	0.31	J	mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Carbon disulfide	0.012	0.010	0.31	J	mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Carbon tetrachloride	ND	0.0021	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Chlorobenzene	ND	0.0026	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Chloroethane	ND	0.0063	0.063		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Chloroform	ND	0.0024	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Chloromethane	0.011	0.0028	0.094	J	mg/Kg	1	11/1/2016 1:40:55 AM	S38351
2-Chlorotoluene	ND	0.0023	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
4-Chlorotoluene	ND	0.0028	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
cis-1,2-DCE	ND	0.0018	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
cis-1,3-Dichloropropene	ND	0.0029	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,2-Dibromo-3-chloropropane	ND	0.0096	0.063		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Dibromochloromethane	ND	0.0028	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Dibromomethane	ND	0.0027	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,2-Dichlorobenzene	ND	0.0027	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,3-Dichlorobenzene	ND	0.0026	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,4-Dichlorobenzene	ND	0.0039	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Dichlorodifluoromethane	ND	0.0097	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,1-Dichloroethane	ND	0.0017	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,1-Dichloroethene	ND	0.010	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,2-Dichloropropane	ND	0.0026	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,3-Dichloropropane	ND	0.0036	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
2,2-Dichloropropane	ND	0.0018	0.063		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,1-Dichloropropene	ND	0.0025	0.063		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Hexachlorobutadiene	ND	0.0038	0.063		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
2-Hexanone	ND	0.017	0.31		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Isopropylbenzene	0.14	0.0027	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
4-Isopropyltoluene	0.054	0.0028	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
4-Methyl-2-pentanone	ND	0.0092	0.31		mg/Kg	1	11/1/2016 1:40:55 AM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-016**Client Sample ID:** SB-16 (5-10)**Collection Date:** 10/26/2016 11:06:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.021	0.0091	0.094	J	mg/Kg	1	11/1/2016 1:40:55 AM	S38351
n-Butylbenzene	0.19	0.0028	0.094		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
n-Propylbenzene	0.38	0.0024	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
sec-Butylbenzene	0.10	0.0044	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Styrene	ND	0.0028	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
tert-Butylbenzene	0.015	0.0026	0.031	J	mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0030	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0051	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Tetrachloroethene (PCE)	ND	0.0026	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
trans-1,2-DCE	ND	0.0088	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
trans-1,3-Dichloropropene	ND	0.0046	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,2,3-Trichlorobenzene	ND	0.0047	0.063		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,2,4-Trichlorobenzene	ND	0.0034	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,1,1-Trichloroethane	ND	0.0019	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,1,2-Trichloroethane	ND	0.0037	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Trichloroethene (TCE)	ND	0.0034	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Trichlorofluoromethane	ND	0.0024	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
1,2,3-Trichloropropane	ND	0.0054	0.063		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Vinyl chloride	ND	0.0026	0.031		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Xylenes, Total	ND	0.0060	0.063		mg/Kg	1	11/1/2016 1:40:55 AM	S38351
Surr: Dibromofluoromethane	96.6	70-130			%Rec	1	11/1/2016 1:40:55 AM	S38351
Surr: 1,2-Dichloroethane-d4	94.1	70-130			%Rec	1	11/1/2016 1:40:55 AM	S38351
Surr: Toluene-d8	92.5	70-130			%Rec	1	11/1/2016 1:40:55 AM	S38351
Surr: 4-Bromofluorobenzene	129	70-130			%Rec	1	11/1/2016 1:40:55 AM	S38351
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	92	0.47	3.1		mg/Kg	1	11/1/2016 1:40:55 AM	GS3835
Surr: BFB	150	0	70-130	S	%Rec	1	11/1/2016 1:40:55 AM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-017**Client Sample ID:** SB-17 (3-6)**Collection Date:** 10/26/2016 11:40:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	ND	1.9	10		mg/Kg	1	11/1/2016 9:54:52 PM	28372
Motor Oil Range Organics (MRO)	ND	50	50		mg/Kg	1	11/1/2016 9:54:52 PM	28372
Surr: DNOP	92.1	0	70-130		%Rec	1	11/1/2016 9:54:52 PM	28372
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 2:49:07 AM	28398
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/7/2016 2:49:07 AM	28398
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 2:49:07 AM	28398
Acenaphthylene	ND	0.033	0.25		mg/Kg	1	11/7/2016 2:49:07 AM	28398
Acenaphthene	ND	0.031	0.25		mg/Kg	1	11/7/2016 2:49:07 AM	28398
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/7/2016 2:49:07 AM	28398
Phenanthrene	0.0070	0.0016	0.015	J	mg/Kg	1	11/7/2016 2:49:07 AM	28398
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/7/2016 2:49:07 AM	28398
Fluoranthene	0.0075	0.0033	0.020	J	mg/Kg	1	11/7/2016 2:49:07 AM	28398
Pyrene	0.0075	0.0034	0.025	J	mg/Kg	1	11/7/2016 2:49:07 AM	28398
Benz(a)anthracene	0.0020	0.00050	0.010	J	mg/Kg	1	11/7/2016 2:49:07 AM	28398
Chrysene	0.0025	0.0014	0.010	J	mg/Kg	1	11/7/2016 2:49:07 AM	28398
Benzo(b)fluoranthene	ND	0.00071	0.010		mg/Kg	1	11/7/2016 2:49:07 AM	28398
Benzo(k)fluoranthene	0.0015	0.00040	0.010	J	mg/Kg	1	11/7/2016 2:49:07 AM	28398
Benzo(a)pyrene	0.0025	0.00040	0.010	J	mg/Kg	1	11/7/2016 2:49:07 AM	28398
Dibenz(a,h)anthracene	ND	0.00050	0.010		mg/Kg	1	11/7/2016 2:49:07 AM	28398
Benzo(g,h,i)perylene	0.0020	0.00060	0.010	J	mg/Kg	1	11/7/2016 2:49:07 AM	28398
Indeno(1,2,3-cd)pyrene	0.0010	0.00080	0.010	J	mg/Kg	1	11/7/2016 2:49:07 AM	28398
Surr: Benzo(e)pyrene	56.2	0	27.4-110		%Rec	1	11/7/2016 2:49:07 AM	28398
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	1.0	2.5		mg/Kg	1	10/31/2016 1:04:02 PM	28363
Arsenic	3.6	0.88	2.5		mg/Kg	1	10/31/2016 1:04:02 PM	28363
Chromium	8.2	0.094	0.30		mg/Kg	1	10/31/2016 1:04:02 PM	28363
Iron	15000	75	250		mg/Kg	100	11/2/2016 10:41:09 AM	28363
Lead	4.9	0.17	0.25		mg/Kg	1	10/31/2016 1:04:02 PM	28363
Manganese	1100	0.27	0.50		mg/Kg	5	11/4/2016 10:28:42 AM	28363
Thallium	ND	0.77	2.5		mg/Kg	1	10/31/2016 1:04:02 PM	28363
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.010	0.013		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Toluene	ND	0.0015	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Ethylbenzene	ND	0.0021	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.0080	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,2,4-Trimethylbenzene	ND	0.0019	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,3,5-Trimethylbenzene	ND	0.0019	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-017**Client Sample ID:** SB-17 (3-6)**Collection Date:** 10/26/2016 11:40:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0067	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,2-Dibromoethane (EDB)	ND	0.0018	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Naphthalene	ND	0.0040	0.051		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1-Methylnaphthalene	0.031	0.0057	0.10	J	mg/Kg	1	11/1/2016 2:09:33 AM	S38351
2-Methylnaphthalene	ND	0.0055	0.10		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Acetone	ND	0.033	0.38		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Bromobenzene	ND	0.0021	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Bromodichloromethane	ND	0.0015	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Bromoform	ND	0.0031	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Bromomethane	ND	0.0094	0.077		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
2-Butanone	0.027	0.015	0.26	J	mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Carbon disulfide	ND	0.0084	0.26		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Carbon tetrachloride	ND	0.0017	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Chlorobenzene	ND	0.0021	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Chloroethane	ND	0.0051	0.051		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Chloroform	ND	0.0019	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Chloromethane	ND	0.0023	0.077		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
2-Chlorotoluene	ND	0.0019	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
4-Chlorotoluene	ND	0.0023	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
cis-1,2-DCE	ND	0.0015	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
cis-1,3-Dichloropropene	ND	0.0024	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,2-Dibromo-3-chloropropane	ND	0.0078	0.051		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Dibromochloromethane	ND	0.0023	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Dibromomethane	ND	0.0022	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,2-Dichlorobenzene	ND	0.0022	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,3-Dichlorobenzene	ND	0.0021	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,4-Dichlorobenzene	ND	0.0032	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Dichlorodifluoromethane	ND	0.0079	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,1-Dichloroethane	ND	0.0014	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,1-Dichloroethene	ND	0.0084	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,2-Dichloropropane	ND	0.0021	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,3-Dichloropropane	ND	0.0029	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
2,2-Dichloropropane	ND	0.0015	0.051		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,1-Dichloropropene	ND	0.0020	0.051		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Hexachlorobutadiene	ND	0.0031	0.051		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
2-Hexanone	ND	0.014	0.26		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Isopropylbenzene	ND	0.0022	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
4-Isopropyltoluene	ND	0.0023	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
4-Methyl-2-pentanone	ND	0.0075	0.26		mg/Kg	1	11/1/2016 2:09:33 AM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-017**Client Sample ID:** SB-17 (3-6)**Collection Date:** 10/26/2016 11:40:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.016	0.0074	0.077	J	mg/Kg	1	11/1/2016 2:09:33 AM	S38351
n-Butylbenzene	ND	0.0023	0.077		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
n-Propylbenzene	ND	0.0020	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
sec-Butylbenzene	ND	0.0035	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Styrene	ND	0.0023	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
tert-Butylbenzene	ND	0.0021	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0024	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0041	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Tetrachloroethene (PCE)	ND	0.0021	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
trans-1,2-DCE	ND	0.0072	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
trans-1,3-Dichloropropene	ND	0.0037	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,2,3-Trichlorobenzene	ND	0.0038	0.051		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,2,4-Trichlorobenzene	ND	0.0027	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,1,1-Trichloroethane	ND	0.0016	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,1,2-Trichloroethane	ND	0.0030	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Trichloroethene (TCE)	ND	0.0027	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Trichlorofluoromethane	ND	0.0019	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
1,2,3-Trichloropropane	ND	0.0044	0.051		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Vinyl chloride	ND	0.0021	0.026		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Xylenes, Total	ND	0.0048	0.051		mg/Kg	1	11/1/2016 2:09:33 AM	S38351
Surr: Dibromofluoromethane	99.4	70-130			%Rec	1	11/1/2016 2:09:33 AM	S38351
Surr: 1,2-Dichloroethane-d4	96.2	70-130			%Rec	1	11/1/2016 2:09:33 AM	S38351
Surr: Toluene-d8	95.4	70-130			%Rec	1	11/1/2016 2:09:33 AM	S38351
Surr: 4-Bromofluorobenzene	96.2	70-130			%Rec	1	11/1/2016 2:09:33 AM	S38351
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	0.77	0.38	2.6	J	mg/Kg	1	11/1/2016 2:09:33 AM	GS3835
Surr: BFB	102	0	70-130		%Rec	1	11/1/2016 2:09:33 AM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-018**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM**Client Sample ID:** SB-18 (3-6)**Collection Date:** 10/26/2016 12:02:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	3.3	1.7	9.4	J	mg/Kg	1	11/1/2016 11:22:01 PM	28375
Motor Oil Range Organics (MRO)	ND	47	47		mg/Kg	1	11/1/2016 11:22:01 PM	28375
Surr: DNOP	94.4	0	70-130		%Rec	1	11/1/2016 11:22:01 PM	28375
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.034	0.24		mg/Kg	1	11/7/2016 3:18:20 AM	28398
1-Methylnaphthalene	ND	0.036	0.24		mg/Kg	1	11/7/2016 3:18:20 AM	28398
2-Methylnaphthalene	ND	0.034	0.24		mg/Kg	1	11/7/2016 3:18:20 AM	28398
Acenaphthylene	ND	0.033	0.24		mg/Kg	1	11/7/2016 3:18:20 AM	28398
Acenaphthene	ND	0.030	0.24		mg/Kg	1	11/7/2016 3:18:20 AM	28398
Fluorene	ND	0.0032	0.029		mg/Kg	1	11/7/2016 3:18:20 AM	28398
Phenanthrene	0.0024	0.0016	0.015	J	mg/Kg	1	11/7/2016 3:18:20 AM	28398
Anthracene	ND	0.0023	0.015		mg/Kg	1	11/7/2016 3:18:20 AM	28398
Fluoranthene	ND	0.0032	0.020		mg/Kg	1	11/7/2016 3:18:20 AM	28398
Pyrene	ND	0.0033	0.024		mg/Kg	1	11/7/2016 3:18:20 AM	28398
Benz(a)anthracene	ND	0.00049	0.0098		mg/Kg	1	11/7/2016 3:18:20 AM	28398
Chrysene	ND	0.0014	0.0098		mg/Kg	1	11/7/2016 3:18:20 AM	28398
Benzo(b)fluoranthene	ND	0.00069	0.0098		mg/Kg	1	11/7/2016 3:18:20 AM	28398
Benzo(k)fluoranthene	ND	0.00039	0.0098		mg/Kg	1	11/7/2016 3:18:20 AM	28398
Benzo(a)pyrene	ND	0.00039	0.0098		mg/Kg	1	11/7/2016 3:18:20 AM	28398
Dibenz(a,h)anthracene	ND	0.00049	0.0098		mg/Kg	1	11/7/2016 3:18:20 AM	28398
Benzo(g,h,i)perylene	0.00073	0.00059	0.0098	J	mg/Kg	1	11/7/2016 3:18:20 AM	28398
Indeno(1,2,3-cd)pyrene	ND	0.00078	0.0098		mg/Kg	1	11/7/2016 3:18:20 AM	28398
Surr: Benzo(e)pyrene	60.6	0	27.4-110		%Rec	1	11/7/2016 3:18:20 AM	28398
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.96	2.4		mg/Kg	1	11/2/2016 11:23:58 AM	28364
Arsenic	3.0	0.85	2.4		mg/Kg	1	11/2/2016 11:23:58 AM	28364
Chromium	4.9	0.090	0.29		mg/Kg	1	11/2/2016 11:23:58 AM	28364
Iron	9200	72	240		mg/Kg	100	11/2/2016 10:42:40 AM	28364
Lead	3.0	0.17	0.24		mg/Kg	1	11/2/2016 11:23:58 AM	28364
Manganese	180	0.051	0.096		mg/Kg	1	11/2/2016 11:23:58 AM	28364
Thallium	ND	0.74	2.4		mg/Kg	1	11/2/2016 11:23:58 AM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.012	0.015		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Toluene	ND	0.0017	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Ethylbenzene	ND	0.0024	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.0092	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,2,4-Trimethylbenzene	ND	0.0022	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,3,5-Trimethylbenzene	ND	0.0021	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-018**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0076	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,2-Dibromoethane (EDB)	ND	0.0021	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Naphthalene	ND	0.0046	0.058		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1-Methylnaphthalene	ND	0.0065	0.12		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
2-Methylnaphthalene	ND	0.0063	0.12		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Acetone	ND	0.038	0.44		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Bromobenzene	ND	0.0024	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Bromodichloromethane	ND	0.0017	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Bromoform	ND	0.0036	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Bromomethane	0.012	0.011	0.088	J	mg/Kg	1	11/1/2016 2:38:06 AM	S38351
2-Butanone	0.029	0.017	0.29	J	mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Carbon disulfide	ND	0.0097	0.29		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Carbon tetrachloride	ND	0.0019	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Chlorobenzene	ND	0.0024	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Chloroethane	ND	0.0058	0.058		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Chloroform	ND	0.0022	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Chloromethane	ND	0.0026	0.088		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
2-Chlorotoluene	ND	0.0022	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
4-Chlorotoluene	ND	0.0026	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
cis-1,2-DCE	ND	0.0017	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
cis-1,3-Dichloropropene	ND	0.0027	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,2-Dibromo-3-chloropropane	ND	0.0090	0.058		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Dibromochloromethane	ND	0.0026	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Dibromomethane	ND	0.0025	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,2-Dichlorobenzene	ND	0.0026	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,3-Dichlorobenzene	ND	0.0024	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,4-Dichlorobenzene	ND	0.0036	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Dichlorodifluoromethane	ND	0.0090	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,1-Dichloroethane	ND	0.0016	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,1-Dichloroethene	ND	0.0096	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,2-Dichloropropane	ND	0.0025	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,3-Dichloropropane	ND	0.0033	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
2,2-Dichloropropane	ND	0.0017	0.058		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,1-Dichloropropene	ND	0.0023	0.058		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Hexachlorobutadiene	ND	0.0036	0.058		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
2-Hexanone	ND	0.016	0.29		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Isopropylbenzene	ND	0.0025	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
4-Isopropyltoluene	ND	0.0026	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
4-Methyl-2-pentanone	ND	0.0085	0.29		mg/Kg	1	11/1/2016 2:38:06 AM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-018**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM**Client Sample ID:** SB-18 (3-6)**Collection Date:** 10/26/2016 12:02:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.021	0.0084	0.088	J	mg/Kg	1	11/1/2016 2:38:06 AM	S38351
n-Butylbenzene	ND	0.0026	0.088		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
n-Propylbenzene	ND	0.0023	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
sec-Butylbenzene	ND	0.0040	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Styrene	ND	0.0026	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
tert-Butylbenzene	ND	0.0024	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0028	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0047	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Tetrachloroethene (PCE)	ND	0.0024	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
trans-1,2-DCE	ND	0.0082	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
trans-1,3-Dichloropropene	ND	0.0043	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,2,3-Trichlorobenzene	ND	0.0044	0.058		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,2,4-Trichlorobenzene	ND	0.0031	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,1,1-Trichloroethane	ND	0.0018	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,1,2-Trichloroethane	ND	0.0034	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Trichloroethene (TCE)	ND	0.0031	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Trichlorofluoromethane	ND	0.0022	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
1,2,3-Trichloropropane	ND	0.0051	0.058		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Vinyl chloride	ND	0.0024	0.029		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Xylenes, Total	ND	0.0055	0.058		mg/Kg	1	11/1/2016 2:38:06 AM	S38351
Surr: Dibromofluoromethane	95.0	70-130		%Rec	1	11/1/2016 2:38:06 AM	S38351	
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%Rec	1	11/1/2016 2:38:06 AM	S38351	
Surr: Toluene-d8	95.3	70-130		%Rec	1	11/1/2016 2:38:06 AM	S38351	
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	11/1/2016 2:38:06 AM	S38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.44	2.9		mg/Kg	1	11/1/2016 2:38:06 AM	GS3835
Surr: BFB	104	0	70-130		%Rec	1	11/1/2016 2:38:06 AM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-019**Client Sample ID:** SB-19 (5-10)**Collection Date:** 10/26/2016 12:17:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	280	1.8	9.9		mg/Kg	1	11/2/2016 12:27:41 AM	28375
Motor Oil Range Organics (MRO)	ND	49	49		mg/Kg	1	11/2/2016 12:27:41 AM	28375
Surr: DNOP	102	0	70-130		%Rec	1	11/2/2016 12:27:41 AM	28375
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.034	0.24		mg/Kg	1	11/7/2016 3:47:37 AM	28398
1-Methylnaphthalene	ND	0.036	0.24		mg/Kg	1	11/7/2016 3:47:37 AM	28398
2-Methylnaphthalene	0.039	0.034	0.24	J	mg/Kg	1	11/7/2016 3:47:37 AM	28398
Acenaphthylene	ND	0.032	0.24		mg/Kg	1	11/7/2016 3:47:37 AM	28398
Acenaphthene	ND	0.029	0.24		mg/Kg	1	11/7/2016 3:47:37 AM	28398
Fluorene	0.018	0.0032	0.029	J	mg/Kg	1	11/7/2016 3:47:37 AM	28398
Phenanthrene	0.12	0.0015	0.014		mg/Kg	1	11/7/2016 3:47:37 AM	28398
Anthracene	ND	0.0023	0.014		mg/Kg	1	11/7/2016 3:47:37 AM	28398
Fluoranthene	0.0065	0.0032	0.019	J	mg/Kg	1	11/7/2016 3:47:37 AM	28398
Pyrene	0.026	0.0033	0.024		mg/Kg	1	11/7/2016 3:47:37 AM	28398
Benz(a)anthracene	ND	0.00048	0.0096		mg/Kg	1	11/7/2016 3:47:37 AM	28398
Chrysene	0.11	0.0013	0.0096		mg/Kg	1	11/7/2016 3:47:37 AM	28398
Benzo(b)fluoranthene	ND	0.00068	0.0096		mg/Kg	1	11/7/2016 3:47:37 AM	28398
Benzo(k)fluoranthene	ND	0.00039	0.0096		mg/Kg	1	11/7/2016 3:47:37 AM	28398
Benzo(a)pyrene	ND	0.00039	0.0096		mg/Kg	1	11/7/2016 3:47:37 AM	28398
Dibenz(a,h)anthracene	ND	0.00048	0.0096		mg/Kg	1	11/7/2016 3:47:37 AM	28398
Benzo(g,h,i)perylene	ND	0.00058	0.0096		mg/Kg	1	11/7/2016 3:47:37 AM	28398
Indeno(1,2,3-cd)pyrene	ND	0.00077	0.0096		mg/Kg	1	11/7/2016 3:47:37 AM	28398
Surr: Benzo(e)pyrene	59.3	0	27.4-110		%Rec	1	11/7/2016 3:47:37 AM	28398
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	1.9	4.8		mg/Kg	2	11/2/2016 11:29:02 AM	28364
Arsenic	2.6	1.7	4.8	J	mg/Kg	2	11/2/2016 11:29:02 AM	28364
Chromium	7.2	0.18	0.58		mg/Kg	2	11/2/2016 11:29:02 AM	28364
Iron	12000	72	240		mg/Kg	100	11/2/2016 10:44:10 AM	28364
Lead	4.4	0.33	0.48		mg/Kg	2	11/2/2016 11:29:02 AM	28364
Manganese	160	0.10	0.19		mg/Kg	2	11/2/2016 11:29:02 AM	28364
Thallium	ND	1.9	4.8		mg/Kg	2	11/2/2016 11:29:02 AM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.014	0.017		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Toluene	ND	0.0021	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Ethylbenzene	ND	0.0028	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.011	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,2,4-Trimethylbenzene	ND	0.0026	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,3,5-Trimethylbenzene	ND	0.0025	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-019**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM**Client Sample ID:** SB-19 (5-10)**Collection Date:** 10/26/2016 12:17:00 PM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0091	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,2-Dibromoethane (EDB)	ND	0.0025	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Naphthalene	ND	0.0054	0.069		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1-Methylnaphthalene	0.068	0.0077	0.14	J	mg/Kg	1	11/1/2016 3:06:41 AM	S38351
2-Methylnaphthalene	0.047	0.0074	0.14	J	mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Acetone	0.082	0.045	0.52	J	mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Bromobenzene	ND	0.0028	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Bromodichloromethane	ND	0.0020	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Bromoform	ND	0.0042	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Bromomethane	0.013	0.013	0.10	J	mg/Kg	1	11/1/2016 3:06:41 AM	S38351
2-Butanone	ND	0.020	0.35		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Carbon disulfide	ND	0.011	0.35		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Carbon tetrachloride	ND	0.0023	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Chlorobenzene	ND	0.0028	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Chloroethane	ND	0.0069	0.069		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Chloroform	ND	0.0026	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Chloromethane	ND	0.0031	0.10		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
2-Chlorotoluene	ND	0.0026	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
4-Chlorotoluene	ND	0.0031	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
cis-1,2-DCE	ND	0.0020	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
cis-1,3-Dichloropropene	ND	0.0032	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,2-Dibromo-3-chloropropane	ND	0.011	0.069		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Dibromochloromethane	ND	0.0031	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Dibromomethane	ND	0.0030	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,2-Dichlorobenzene	ND	0.0030	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,3-Dichlorobenzene	ND	0.0028	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,4-Dichlorobenzene	ND	0.0043	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Dichlorodifluoromethane	ND	0.011	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,1-Dichloroethane	ND	0.0019	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,1-Dichloroethene	ND	0.011	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,2-Dichloropropane	ND	0.0029	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,3-Dichloropropane	ND	0.0039	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
2,2-Dichloropropane	ND	0.0020	0.069		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,1-Dichloropropene	ND	0.0028	0.069		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Hexachlorobutadiene	ND	0.0042	0.069		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
2-Hexanone	ND	0.019	0.35		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Isopropylbenzene	ND	0.0030	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
4-Isopropyltoluene	ND	0.0031	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
4-Methyl-2-pentanone	0.018	0.010	0.35	J	mg/Kg	1	11/1/2016 3:06:41 AM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-019**Client Sample ID:** SB-19 (5-10)**Collection Date:** 10/26/2016 12:17:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.023	0.010	0.10	J	mg/Kg	1	11/1/2016 3:06:41 AM	S38351
n-Butylbenzene	ND	0.0031	0.10		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
n-Propylbenzene	ND	0.0027	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
sec-Butylbenzene	ND	0.0048	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Styrene	ND	0.0031	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
tert-Butylbenzene	ND	0.0029	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0033	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0056	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Tetrachloroethene (PCE)	ND	0.0029	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
trans-1,2-DCE	ND	0.0097	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
trans-1,3-Dichloropropene	ND	0.0051	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,2,3-Trichlorobenzene	0.0087	0.0052	0.069	J	mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,2,4-Trichlorobenzene	ND	0.0037	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,1,1-Trichloroethane	ND	0.0021	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,1,2-Trichloroethane	ND	0.0041	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Trichloroethene (TCE)	ND	0.0037	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Trichlorofluoromethane	ND	0.0026	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
1,2,3-Trichloropropane	ND	0.0060	0.069		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Vinyl chloride	ND	0.0028	0.035		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Xylenes, Total	ND	0.0066	0.069		mg/Kg	1	11/1/2016 3:06:41 AM	S38351
Surr: Dibromofluoromethane	103	70-130			%Rec	1	11/1/2016 3:06:41 AM	S38351
Surr: 1,2-Dichloroethane-d4	94.2	70-130			%Rec	1	11/1/2016 3:06:41 AM	S38351
Surr: Toluene-d8	95.1	70-130			%Rec	1	11/1/2016 3:06:41 AM	S38351
Surr: 4-Bromofluorobenzene	96.1	70-130			%Rec	1	11/1/2016 3:06:41 AM	S38351
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	2.0	0.52	3.5	J	mg/Kg	1	11/1/2016 3:06:41 AM	GS3835
Surr: BFB	105	0	70-130		%Rec	1	11/1/2016 3:06:41 AM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-020**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	11	1.8	9.8		mg/Kg	1	11/2/2016 12:49:22 AM	28375
Motor Oil Range Organics (MRO)	ND	49	49		mg/Kg	1	11/2/2016 12:49:22 AM	28375
Surr: DNOP	96.8	0	70-130	%Rec		1	11/2/2016 12:49:22 AM	28375
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.033	0.24		mg/Kg	1	11/7/2016 4:16:51 AM	28398
1-Methylnaphthalene	ND	0.035	0.24		mg/Kg	1	11/7/2016 4:16:51 AM	28398
2-Methylnaphthalene	ND	0.034	0.24		mg/Kg	1	11/7/2016 4:16:51 AM	28398
Acenaphthylene	ND	0.032	0.24		mg/Kg	1	11/7/2016 4:16:51 AM	28398
Acenaphthene	ND	0.029	0.24		mg/Kg	1	11/7/2016 4:16:51 AM	28398
Fluorene	ND	0.0032	0.029		mg/Kg	1	11/7/2016 4:16:51 AM	28398
Phenanthrene	0.016	0.0015	0.014		mg/Kg	1	11/7/2016 4:16:51 AM	28398
Anthracene	ND	0.0023	0.014		mg/Kg	1	11/7/2016 4:16:51 AM	28398
Fluoranthene	0.0034	0.0032	0.019	J	mg/Kg	1	11/7/2016 4:16:51 AM	28398
Pyrene	0.0041	0.0033	0.024	J	mg/Kg	1	11/7/2016 4:16:51 AM	28398
Benz(a)anthracene	0.00072	0.00048	0.0096	J	mg/Kg	1	11/7/2016 4:16:51 AM	28398
Chrysene	0.0041	0.0013	0.0096	J	mg/Kg	1	11/7/2016 4:16:51 AM	28398
Benzo(b)fluoranthene	0.0019	0.00068	0.0096	J	mg/Kg	1	11/7/2016 4:16:51 AM	28398
Benzo(k)fluoranthene	0.0012	0.00038	0.0096	J	mg/Kg	1	11/7/2016 4:16:51 AM	28398
Benzo(a)pyrene	0.00072	0.00038	0.0096	J	mg/Kg	1	11/7/2016 4:16:51 AM	28398
Dibenz(a,h)anthracene	ND	0.00048	0.0096		mg/Kg	1	11/7/2016 4:16:51 AM	28398
Benzo(g,h,i)perylene	0.00096	0.00057	0.0096	J	mg/Kg	1	11/7/2016 4:16:51 AM	28398
Indeno(1,2,3-cd)pyrene	0.0012	0.00077	0.0096	J	mg/Kg	1	11/7/2016 4:16:51 AM	28398
Surr: Benzo(e)pyrene	61.1	0	27.4-110	%Rec		1	11/7/2016 4:16:51 AM	28398
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.99	2.5		mg/Kg	1	11/2/2016 11:30:42 AM	28364
Arsenic	3.1	0.88	2.5		mg/Kg	1	11/2/2016 11:30:42 AM	28364
Chromium	5.0	0.093	0.30		mg/Kg	1	11/2/2016 11:30:42 AM	28364
Iron	13000	74	250		mg/Kg	100	11/2/2016 10:45:39 AM	28364
Lead	5.1	0.17	0.25		mg/Kg	1	11/2/2016 11:30:42 AM	28364
Manganese	190	0.053	0.098		mg/Kg	1	11/2/2016 11:30:42 AM	28364
Thallium	ND	0.76	2.5		mg/Kg	1	11/2/2016 11:30:42 AM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.013	0.016		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Toluene	ND	0.0019	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Ethylbenzene	ND	0.0026	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Methyl tert-butyl ether (MTBE)	ND	0.010	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,2,4-Trimethylbenzene	ND	0.0024	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,3,5-Trimethylbenzene	ND	0.0023	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-020**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0084	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,2-Dibromoethane (EDB)	ND	0.0023	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Naphthalene	ND	0.0051	0.065		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1-Methylnaphthalene	ND	0.0072	0.13		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
2-Methylnaphthalene	ND	0.0069	0.13		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Acetone	ND	0.042	0.49		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Bromobenzene	ND	0.0026	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Bromodichloromethane	ND	0.0019	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Bromoform	ND	0.0039	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Bromomethane	0.015	0.012	0.097	J	mg/Kg	1	11/1/2016 3:35:07 AM	S38351
2-Butanone	ND	0.018	0.32		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Carbon disulfide	ND	0.011	0.32		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Carbon tetrachloride	ND	0.0021	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Chlorobenzene	ND	0.0026	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Chloroethane	ND	0.0065	0.065		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Chloroform	ND	0.0024	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Chloromethane	ND	0.0029	0.097		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
2-Chlorotoluene	ND	0.0024	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
4-Chlorotoluene	ND	0.0029	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
cis-1,2-DCE	ND	0.0019	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
cis-1,3-Dichloropropene	ND	0.0030	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,2-Dibromo-3-chloropropane	ND	0.0099	0.065		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Dibromochloromethane	ND	0.0029	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Dibromomethane	ND	0.0028	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,2-Dichlorobenzene	ND	0.0028	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,3-Dichlorobenzene	ND	0.0027	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,4-Dichlorobenzene	ND	0.0040	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Dichlorodifluoromethane	ND	0.010	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,1-Dichloroethane	ND	0.0017	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,1-Dichloroethene	ND	0.011	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,2-Dichloropropane	ND	0.0027	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,3-Dichloropropane	ND	0.0037	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
2,2-Dichloropropane	ND	0.0019	0.065		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,1-Dichloropropene	ND	0.0026	0.065		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Hexachlorobutadiene	ND	0.0040	0.065		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
2-Hexanone	ND	0.018	0.32		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Isopropylbenzene	ND	0.0028	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
4-Isopropyltoluene	ND	0.0029	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
4-Methyl-2-pentanone	ND	0.0094	0.32		mg/Kg	1	11/1/2016 3:35:07 AM	S38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-020**Client Sample ID:** SB-20 (3-6)**Collection Date:** 10/26/2016 12:32:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.021	0.0093	0.097	J	mg/Kg	1	11/1/2016 3:35:07 AM	S38351
n-Butylbenzene	ND	0.0029	0.097		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
n-Propylbenzene	ND	0.0025	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
sec-Butylbenzene	ND	0.0045	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Styrene	ND	0.0029	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
tert-Butylbenzene	ND	0.0027	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,1,1,2-Tetrachloroethane	ND	0.0031	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,1,2,2-Tetrachloroethane	ND	0.0052	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Tetrachloroethene (PCE)	ND	0.0027	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
trans-1,2-DCE	ND	0.0091	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
trans-1,3-Dichloropropene	ND	0.0047	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,2,3-Trichlorobenzene	ND	0.0048	0.065		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,2,4-Trichlorobenzene	ND	0.0035	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,1,1-Trichloroethane	ND	0.0020	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,1,2-Trichloroethane	ND	0.0038	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Trichloroethene (TCE)	ND	0.0035	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Trichlorofluoromethane	ND	0.0024	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
1,2,3-Trichloropropane	ND	0.0056	0.065		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Vinyl chloride	ND	0.0026	0.032		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Xylenes, Total	ND	0.0061	0.065		mg/Kg	1	11/1/2016 3:35:07 AM	S38351
Surr: Dibromofluoromethane	101	70-130		%Rec	1	11/1/2016 3:35:07 AM	S38351	
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%Rec	1	11/1/2016 3:35:07 AM	S38351	
Surr: Toluene-d8	100	70-130		%Rec	1	11/1/2016 3:35:07 AM	S38351	
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	11/1/2016 3:35:07 AM	S38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.49	3.2		mg/Kg	1	11/1/2016 3:35:07 AM	GS3835
Surr: BFB	104	0	70-130		%Rec	1	11/1/2016 3:35:07 AM	GS3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-021**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	ND	1.8	9.8		mg/Kg	1	11/2/2016 1:11:11 AM	28375
Motor Oil Range Organics (MRO)	ND	49	49		mg/Kg	1	11/2/2016 1:11:11 AM	28375
Surr: DNOP	95.5	0	70-130	%Rec		1	11/2/2016 1:11:11 AM	28375
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 4:46:05 AM	28398
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/7/2016 4:46:05 AM	28398
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 4:46:05 AM	28398
Acenaphthylene	ND	0.033	0.25		mg/Kg	1	11/7/2016 4:46:05 AM	28398
Acenaphthene	ND	0.030	0.25		mg/Kg	1	11/7/2016 4:46:05 AM	28398
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/7/2016 4:46:05 AM	28398
Phenanthrene	0.0035	0.0016	0.015	J	mg/Kg	1	11/7/2016 4:46:05 AM	28398
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/7/2016 4:46:05 AM	28398
Fluoranthene	ND	0.0033	0.020		mg/Kg	1	11/7/2016 4:46:05 AM	28398
Pyrene	ND	0.0034	0.025		mg/Kg	1	11/7/2016 4:46:05 AM	28398
Benz(a)anthracene	ND	0.00050	0.0099		mg/Kg	1	11/7/2016 4:46:05 AM	28398
Chrysene	ND	0.0014	0.0099		mg/Kg	1	11/7/2016 4:46:05 AM	28398
Benzo(b)fluoranthene	ND	0.00070	0.0099		mg/Kg	1	11/7/2016 4:46:05 AM	28398
Benzo(k)fluoranthene	ND	0.00040	0.0099		mg/Kg	1	11/7/2016 4:46:05 AM	28398
Benzo(a)pyrene	0.00050	0.00040	0.0099	J	mg/Kg	1	11/7/2016 4:46:05 AM	28398
Dibenz(a,h)anthracene	ND	0.00050	0.0099		mg/Kg	1	11/7/2016 4:46:05 AM	28398
Benzo(g,h,i)perylene	0.00074	0.00060	0.0099	J	mg/Kg	1	11/7/2016 4:46:05 AM	28398
Indeno(1,2,3-cd)pyrene	0.0087	0.00079	0.0099	J	mg/Kg	1	11/7/2016 4:46:05 AM	28398
Surr: Benzo(e)pyrene	66.7	0	27.4-110	%Rec		1	11/7/2016 4:46:05 AM	28398
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.96	2.4		mg/Kg	1	11/2/2016 11:40:23 AM	28364
Arsenic	3.5	0.85	2.4		mg/Kg	1	11/2/2016 11:40:23 AM	28364
Chromium	6.9	0.090	0.29		mg/Kg	1	11/2/2016 11:40:23 AM	28364
Iron	11000	72	240		mg/Kg	100	11/2/2016 10:47:08 AM	28364
Lead	1.7	0.17	0.24		mg/Kg	1	11/2/2016 11:40:23 AM	28364
Manganese	410	0.10	0.19		mg/Kg	2	11/2/2016 11:42:00 AM	28364
Thallium	ND	0.74	2.4		mg/Kg	1	11/2/2016 11:40:23 AM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.012	0.015		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Toluene	ND	0.0018	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Ethylbenzene	ND	0.0025	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Methyl tert-butyl ether (MTBE)	ND	0.0095	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,2,4-Trimethylbenzene	ND	0.0022	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,3,5-Trimethylbenzene	ND	0.0022	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-021**Client Sample ID:** SB-21 (0-5)**Collection Date:** 10/27/2016 8:15:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0079	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,2-Dibromoethane (EDB)	ND	0.0022	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Naphthalene	ND	0.0047	0.061		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1-Methylnaphthalene	ND	0.0067	0.12		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
2-Methylnaphthalene	ND	0.0065	0.12		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Acetone	0.044	0.039	0.46	J	mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Bromobenzene	ND	0.0024	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Bromodichloromethane	ND	0.0018	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Bromoform	ND	0.0037	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Bromomethane	0.012	0.011	0.091	J	mg/Kg	1	11/1/2016 4:03:34 AM	T38351
2-Butanone	ND	0.017	0.30		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Carbon disulfide	ND	0.010	0.30		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Carbon tetrachloride	ND	0.0020	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Chlorobenzene	ND	0.0025	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Chloroethane	ND	0.0061	0.061		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Chloroform	ND	0.0023	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Chloromethane	ND	0.0027	0.091		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
2-Chlorotoluene	ND	0.0022	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
4-Chlorotoluene	ND	0.0027	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
cis-1,2-DCE	ND	0.0018	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
cis-1,3-Dichloropropene	ND	0.0028	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,2-Dibromo-3-chloropropane	ND	0.0093	0.061		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Dibromochloromethane	ND	0.0027	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Dibromomethane	ND	0.0026	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,2-Dichlorobenzene	ND	0.0026	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,3-Dichlorobenzene	ND	0.0025	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,4-Dichlorobenzene	ND	0.0038	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Dichlorodifluoromethane	ND	0.0094	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,1-Dichloroethane	ND	0.0016	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,1-Dichloroethene	ND	0.0099	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,2-Dichloropropane	ND	0.0025	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,3-Dichloropropane	ND	0.0034	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
2,2-Dichloropropane	ND	0.0017	0.061		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,1-Dichloropropene	ND	0.0024	0.061		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Hexachlorobutadiene	ND	0.0037	0.061		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
2-Hexanone	ND	0.017	0.30		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Isopropylbenzene	ND	0.0026	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
4-Isopropyltoluene	ND	0.0027	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
4-Methyl-2-pentanone	ND	0.0088	0.30		mg/Kg	1	11/1/2016 4:03:34 AM	T38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-021**Client Sample ID:** SB-21 (0-5)**Collection Date:** 10/27/2016 8:15:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.020	0.0087	0.091	J	mg/Kg	1	11/1/2016 4:03:34 AM	T38351
n-Butylbenzene	ND	0.0027	0.091		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
n-Propylbenzene	ND	0.0023	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
sec-Butylbenzene	ND	0.0042	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Styrene	ND	0.0027	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
tert-Butylbenzene	ND	0.0025	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,1,1,2-Tetrachloroethane	ND	0.0029	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,1,2,2-Tetrachloroethane	ND	0.0049	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Tetrachloroethene (PCE)	ND	0.0025	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
trans-1,2-DCE	ND	0.0085	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
trans-1,3-Dichloropropene	ND	0.0044	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,2,3-Trichlorobenzene	ND	0.0045	0.061		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,2,4-Trichlorobenzene	ND	0.0032	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,1,1-Trichloroethane	ND	0.0019	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,1,2-Trichloroethane	ND	0.0036	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Trichloroethene (TCE)	ND	0.0033	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Trichlorofluoromethane	ND	0.0023	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
1,2,3-Trichloropropane	ND	0.0052	0.061		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Vinyl chloride	ND	0.0025	0.030		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Xylenes, Total	ND	0.0057	0.061		mg/Kg	1	11/1/2016 4:03:34 AM	T38351
Surr: Dibromofluoromethane	97.8	70-130		%Rec	1	11/1/2016 4:03:34 AM	T38351	
Surr: 1,2-Dichloroethane-d4	88.1	70-130		%Rec	1	11/1/2016 4:03:34 AM	T38351	
Surr: Toluene-d8	98.7	70-130		%Rec	1	11/1/2016 4:03:34 AM	T38351	
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	11/1/2016 4:03:34 AM	T38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.46	3.0		mg/Kg	1	11/1/2016 4:03:34 AM	GT3835
Surr: BFB	98.6	0	70-130		%Rec	1	11/1/2016 4:03:34 AM	GT3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-022**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM**Client Sample ID:** SB-22 (3-6)**Collection Date:** 10/27/2016 8:35:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	1100	18	98		mg/Kg	10	11/3/2016 12:25:33 AM	28375
Motor Oil Range Organics (MRO)	4600	490	490		mg/Kg	10	11/3/2016 12:25:33 AM	28375
Surr: DNOP	0	0	70-130	S	%Rec	10	11/3/2016 12:25:33 AM	28375
EPA METHOD 8310: PAHS								
Naphthalene	ND	3.4	24	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
1-Methylnaphthalene	ND	3.6	24	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
2-Methylnaphthalene	ND	3.4	24	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Acenaphthylene	ND	3.3	24	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Acenaphthene	ND	3.0	24	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Fluorene	ND	0.32	2.9	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Phenanthren	ND	0.16	1.5	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Anthracene	ND	0.23	1.5	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Fluoranthene	ND	0.32	1.9	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Pyrene	ND	0.33	2.4	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Benz(a)anthracene	ND	0.049	0.97	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Chrysene	ND	0.14	0.97	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Benzo(b)fluoranthene	ND	0.069	0.97	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Benzo(k)fluoranthene	ND	0.039	0.97	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Benzo(a)pyrene	ND	0.039	0.97	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Dibenz(a,h)anthracene	ND	0.049	0.97	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Benzo(g,h,i)perylene	0.073	0.058	0.97	JD	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Indeno(1,2,3-cd)pyrene	ND	0.078	0.97	D	mg/Kg	10	11/8/2016 11:55:31 AM	28398
Surr: Benzo(e)pyrene	0	0	27.4-110	SD	%Rec	10	11/8/2016 11:55:31 AM	28398
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	1.0	2.5		mg/Kg	1	11/2/2016 11:43:41 AM	28364
Arsenic	3.8	0.89	2.5		mg/Kg	1	11/2/2016 11:43:41 AM	28364
Chromium	7.2	0.094	0.30		mg/Kg	1	11/2/2016 11:43:41 AM	28364
Iron	11000	75	250		mg/Kg	100	11/2/2016 10:54:57 AM	28364
Lead	1.7	0.17	0.25		mg/Kg	1	11/2/2016 11:43:41 AM	28364
Manganese	320	0.11	0.20		mg/Kg	2	11/2/2016 11:45:14 AM	28364
Thallium	ND	0.77	2.5		mg/Kg	1	11/2/2016 11:43:41 AM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.014	0.018		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Toluene	ND	0.0021	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Ethylbenzene	ND	0.0029	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Methyl tert-butyl ether (MTBE)	ND	0.011	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,2,4-Trimethylbenzene	ND	0.0026	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,3,5-Trimethylbenzene	ND	0.0026	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-022**Client Sample ID:** SB-22 (3-6)**Collection Date:** 10/27/2016 8:35:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0094	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,2-Dibromoethane (EDB)	ND	0.0026	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Naphthalene	ND	0.0056	0.072		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1-Methylnaphthalene	ND	0.0080	0.14		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
2-Methylnaphthalene	ND	0.0077	0.14		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Acetone	ND	0.046	0.54		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Bromobenzene	ND	0.0029	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Bromodichloromethane	ND	0.0021	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Bromoform	ND	0.0044	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Bromomethane	0.013	0.013	0.11	J	mg/Kg	1	11/1/2016 5:29:40 AM	T38351
2-Butanone	0.032	0.021	0.36	J	mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Carbon disulfide	ND	0.012	0.36		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Carbon tetrachloride	ND	0.0024	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Chlorobenzene	ND	0.0029	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Chloroethane	ND	0.0072	0.072		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Chloroform	ND	0.0027	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Chloromethane	ND	0.0032	0.11		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
2-Chlorotoluene	ND	0.0026	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
4-Chlorotoluene	ND	0.0032	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
cis-1,2-DCE	ND	0.0021	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
cis-1,3-Dichloropropene	ND	0.0033	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,2-Dibromo-3-chloropropane	ND	0.011	0.072		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Dibromochloromethane	ND	0.0032	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Dibromomethane	ND	0.0031	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,2-Dichlorobenzene	ND	0.0031	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,3-Dichlorobenzene	ND	0.0029	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,4-Dichlorobenzene	ND	0.0045	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Dichlorodifluoromethane	ND	0.011	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,1-Dichloroethane	ND	0.0019	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,1-Dichloroethene	ND	0.012	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,2-Dichloropropane	ND	0.0030	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,3-Dichloropropane	ND	0.0041	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
2,2-Dichloropropane	ND	0.0021	0.072		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,1-Dichloropropene	ND	0.0028	0.072		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Hexachlorobutadiene	ND	0.0044	0.072		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
2-Hexanone	ND	0.020	0.36		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Isopropylbenzene	ND	0.0031	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
4-Isopropyltoluene	ND	0.0032	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
4-Methyl-2-pentanone	ND	0.010	0.36		mg/Kg	1	11/1/2016 5:29:40 AM	T38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-022**Client Sample ID:** SB-22 (3-6)**Collection Date:** 10/27/2016 8:35:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.030	0.010	0.11	J	mg/Kg	1	11/1/2016 5:29:40 AM	T38351
n-Butylbenzene	ND	0.0032	0.11		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
n-Propylbenzene	ND	0.0028	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
sec-Butylbenzene	ND	0.0050	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Styrene	ND	0.0032	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
tert-Butylbenzene	ND	0.0030	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,1,1,2-Tetrachloroethane	ND	0.0034	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,1,2,2-Tetrachloroethane	ND	0.0058	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Tetrachloroethene (PCE)	ND	0.0030	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
trans-1,2-DCE	ND	0.010	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
trans-1,3-Dichloropropene	ND	0.0053	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,2,3-Trichlorobenzene	ND	0.0054	0.072		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,2,4-Trichlorobenzene	ND	0.0038	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,1,1-Trichloroethane	ND	0.0022	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,1,2-Trichloroethane	ND	0.0042	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Trichloroethene (TCE)	ND	0.0038	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Trichlorofluoromethane	ND	0.0027	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
1,2,3-Trichloropropane	ND	0.0062	0.072		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Vinyl chloride	ND	0.0029	0.036		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Xylenes, Total	ND	0.0068	0.072		mg/Kg	1	11/1/2016 5:29:40 AM	T38351
Surr: Dibromofluoromethane	93.9	70-130		%Rec	1	11/1/2016 5:29:40 AM	T38351	
Surr: 1,2-Dichloroethane-d4	91.1	70-130		%Rec	1	11/1/2016 5:29:40 AM	T38351	
Surr: Toluene-d8	93.3	70-130		%Rec	1	11/1/2016 5:29:40 AM	T38351	
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	11/1/2016 5:29:40 AM	T38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.54	3.6		mg/Kg	1	11/1/2016 5:29:40 AM	GT3835
Surr: BFB	99.0	0	70-130		%Rec	1	11/1/2016 5:29:40 AM	GT3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-023**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM**Client Sample ID:** SB-23 (0-5)**Collection Date:** 10/27/2016 8:58:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	170	3.6	20		mg/Kg	2	11/5/2016 3:14:19 AM	28375
Motor Oil Range Organics (MRO)	570	98	98		mg/Kg	2	11/5/2016 3:14:19 AM	28375
Surr: DNOP	99.8	0	70-130		%Rec	2	11/5/2016 3:14:19 AM	28375
EPA METHOD 8310: PAHS								
Naphthalene	ND	1.7	12	D	mg/Kg	5	11/7/2016 3:30:10 PM	28398
1-Methylnaphthalene	ND	1.8	12	D	mg/Kg	5	11/7/2016 3:30:10 PM	28398
2-Methylnaphthalene	ND	1.7	12	D	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Acenaphthylene	ND	1.6	12	D	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Acenaphthene	ND	1.5	12	D	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Fluorene	ND	0.16	1.5	D	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Phenanthrene	0.22	0.078	0.74	JD	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Anthracene	ND	0.12	0.74	D	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Fluoranthene	0.20	0.16	0.98	JD	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Pyrene	0.22	0.17	1.2	JD	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Benz(a)anthracene	0.098	0.025	0.49	JD	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Chrysene	0.11	0.069	0.49	JD	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Benzo(b)fluoranthene	0.098	0.035	0.49	JD	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Benzo(k)fluoranthene	0.061	0.020	0.49	JD	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Benzo(a)pyrene	0.098	0.020	0.49	JD	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Dibenz(a,h)anthracene	ND	0.025	0.49	D	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Benzo(g,h,i)perylene	0.11	0.029	0.49	JD	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Indeno(1,2,3-cd)pyrene	0.34	0.039	0.49	JD	mg/Kg	5	11/7/2016 3:30:10 PM	28398
Surr: Benzo(e)pyrene	0	0	27.4-110	SD	%Rec	5	11/7/2016 3:30:10 PM	28398
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	1.0	2.5		mg/Kg	1	11/2/2016 11:46:56 AM	28364
Arsenic	1.9	0.88	2.5	J	mg/Kg	1	11/2/2016 11:46:56 AM	28364
Chromium	4.4	0.094	0.30		mg/Kg	1	11/2/2016 11:46:56 AM	28364
Iron	11000	75	250		mg/Kg	100	11/2/2016 10:56:27 AM	28364
Lead	21	0.17	0.25		mg/Kg	1	11/2/2016 11:46:56 AM	28364
Manganese	190	0.053	0.099		mg/Kg	1	11/2/2016 11:46:56 AM	28364
Thallium	ND	0.77	2.5		mg/Kg	1	11/2/2016 11:46:56 AM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.015	0.018		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Toluene	0.0071	0.0022	0.037	J	mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Ethylbenzene	ND	0.0030	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Methyl tert-butyl ether (MTBE)	ND	0.012	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,2,4-Trimethylbenzene	0.0099	0.0027	0.037	J	mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,3,5-Trimethylbenzene	ND	0.0027	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-023**Client Sample ID:** SB-23 (0-5)**Collection Date:** 10/27/2016 8:58:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0096	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,2-Dibromoethane (EDB)	ND	0.0026	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Naphthalene	0.020	0.0058	0.074	J	mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1-Methylnaphthalene	0.013	0.0082	0.15	J	mg/Kg	1	11/1/2016 6:55:35 AM	T38351
2-Methylnaphthalene	0.024	0.0079	0.15	J	mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Acetone	0.13	0.048	0.55	J	mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Bromobenzene	ND	0.0030	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Bromodichloromethane	ND	0.0022	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Bromoform	ND	0.0045	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Bromomethane	ND	0.014	0.11		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
2-Butanone	ND	0.021	0.37		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Carbon disulfide	ND	0.012	0.37		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Carbon tetrachloride	ND	0.0024	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Chlorobenzene	ND	0.0030	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Chloroethane	ND	0.0074	0.074		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Chloroform	0.032	0.0028	0.037	J	mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Chloromethane	ND	0.0033	0.11		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
2-Chlorotoluene	ND	0.0027	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
4-Chlorotoluene	ND	0.0033	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
cis-1,2-DCE	ND	0.0021	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
cis-1,3-Dichloropropene	ND	0.0034	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,2-Dibromo-3-chloropropane	ND	0.011	0.074		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Dibromochloromethane	ND	0.0033	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Dibromomethane	ND	0.0032	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,2-Dichlorobenzene	ND	0.0032	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,3-Dichlorobenzene	ND	0.0030	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,4-Dichlorobenzene	ND	0.0046	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Dichlorodifluoromethane	ND	0.011	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,1-Dichloroethane	ND	0.0020	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,1-Dichloroethene	ND	0.012	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,2-Dichloropropane	ND	0.0031	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,3-Dichloropropane	ND	0.0042	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
2,2-Dichloropropane	ND	0.0021	0.074		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,1-Dichloropropene	ND	0.0029	0.074		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Hexachlorobutadiene	ND	0.0045	0.074		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
2-Hexanone	ND	0.020	0.37		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Isopropylbenzene	ND	0.0032	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
4-Isopropyltoluene	ND	0.0033	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
4-Methyl-2-pentanone	0.021	0.011	0.37	J	mg/Kg	1	11/1/2016 6:55:35 AM	T38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-023**Client Sample ID:** SB-23 (0-5)**Collection Date:** 10/27/2016 8:58:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.023	0.011	0.11	J	mg/Kg	1	11/1/2016 6:55:35 AM	T38351
n-Butylbenzene	ND	0.0033	0.11		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
n-Propylbenzene	ND	0.0028	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
sec-Butylbenzene	ND	0.0051	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Styrene	ND	0.0033	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
tert-Butylbenzene	ND	0.0031	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,1,1,2-Tetrachloroethane	ND	0.0035	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,1,2,2-Tetrachloroethane	ND	0.0060	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Tetrachloroethene (PCE)	ND	0.0031	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
trans-1,2-DCE	ND	0.010	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
trans-1,3-Dichloropropene	ND	0.0054	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,2,3-Trichlorobenzene	ND	0.0055	0.074		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,2,4-Trichlorobenzene	ND	0.0040	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,1,1-Trichloroethane	ND	0.0023	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,1,2-Trichloroethane	ND	0.0044	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Trichloroethene (TCE)	ND	0.0040	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Trichlorofluoromethane	ND	0.0028	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
1,2,3-Trichloropropane	ND	0.0064	0.074		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Vinyl chloride	ND	0.0030	0.037		mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Xylenes, Total	0.016	0.0070	0.074	J	mg/Kg	1	11/1/2016 6:55:35 AM	T38351
Surr: Dibromofluoromethane	98.4		70-130		%Rec	1	11/1/2016 6:55:35 AM	T38351
Surr: 1,2-Dichloroethane-d4	93.0		70-130		%Rec	1	11/1/2016 6:55:35 AM	T38351
Surr: Toluene-d8	94.6		70-130		%Rec	1	11/1/2016 6:55:35 AM	T38351
Surr: 4-Bromofluorobenzene	97.2		70-130		%Rec	1	11/1/2016 6:55:35 AM	T38351
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	1.1	0.56	3.7	J	mg/Kg	1	11/1/2016 6:55:35 AM	GT3835
Surr: BFB	101	0	70-130		%Rec	1	11/1/2016 6:55:35 AM	GT3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-024**Client Sample ID:** SB-24 (0-5)**Collection Date:** 10/27/2016 9:20:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	29	1.8	10		mg/Kg	1	11/3/2016 1:52:18 AM	28375
Motor Oil Range Organics (MRO)	70	50	50		mg/Kg	1	11/3/2016 1:52:18 AM	28375
Surr: DNOP	102	0	70-130		%Rec	1	11/3/2016 1:52:18 AM	28375
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.35	2.5	D	mg/Kg	1	11/7/2016 6:42:54 AM	28417
1-Methylnaphthalene	ND	0.37	2.5	D	mg/Kg	1	11/7/2016 6:42:54 AM	28417
2-Methylnaphthalene	ND	0.35	2.5	D	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Acenaphthylene	ND	0.33	2.5	D	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Acenaphthene	ND	0.30	2.5	D	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Fluorene	ND	0.033	0.30	D	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Phenanthrene	0.11	0.016	0.15	JD	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Anthracene	ND	0.024	0.15	D	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Fluoranthene	0.070	0.033	0.20	JD	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Pyrene	0.080	0.034	0.25	JD	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Benz(a)anthracene	0.027	0.0050	0.10	JD	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Chrysene	0.032	0.014	0.10	JD	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Benzo(b)fluoranthene	0.020	0.0070	0.10	JD	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Benzo(k)fluoranthene	0.022	0.0040	0.10	JD	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Benzo(a)pyrene	0.040	0.0040	0.10	JD	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Dibenz(a,h)anthracene	ND	0.0050	0.10	D	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Benzo(g,h,i)perylene	0.027	0.0060	0.10	JD	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Indeno(1,2,3-cd)pyrene	0.29	0.0080	0.10	D	mg/Kg	1	11/7/2016 6:42:54 AM	28417
Surr: Benzo(e)pyrene	0	0	27.4-110	SD	%Rec	1	11/7/2016 6:42:54 AM	28417
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	1.0	2.5		mg/Kg	1	11/2/2016 11:50:19 AM	28364
Arsenic	2.9	0.88	2.5		mg/Kg	1	11/2/2016 11:50:19 AM	28364
Chromium	4.1	0.094	0.30		mg/Kg	1	11/2/2016 11:50:19 AM	28364
Iron	14000	75	250		mg/Kg	100	11/2/2016 10:57:58 AM	28364
Lead	28	0.17	0.25		mg/Kg	1	11/2/2016 11:50:19 AM	28364
Manganese	230	0.053	0.099		mg/Kg	1	11/2/2016 11:50:19 AM	28364
Thallium	ND	0.77	2.5		mg/Kg	1	11/2/2016 11:50:19 AM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.011	0.013		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Toluene	ND	0.0016	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Ethylbenzene	ND	0.0022	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Methyl tert-butyl ether (MTBE)	ND	0.0083	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,2,4-Trimethylbenzene	ND	0.0019	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,3,5-Trimethylbenzene	ND	0.0019	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Client Sample ID:** SB-24 (0-5)**Project:** COA Railyards**Collection Date:** 10/27/2016 9:20:00 AM**Lab ID:** 1610E23-024**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0069	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,2-Dibromoethane (EDB)	ND	0.0019	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Naphthalene	ND	0.0041	0.053		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1-Methylnaphthalene	ND	0.0059	0.11		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
2-Methylnaphthalene	ND	0.0057	0.11		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Acetone	ND	0.034	0.40		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Bromobenzene	ND	0.0021	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Bromodichloromethane	ND	0.0015	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Bromoform	ND	0.0032	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Bromomethane	ND	0.0097	0.079		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
2-Butanone	ND	0.015	0.26		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Carbon disulfide	ND	0.0087	0.26		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Carbon tetrachloride	ND	0.0017	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Chlorobenzene	ND	0.0021	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Chloroethane	ND	0.0053	0.053		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Chloroform	ND	0.0020	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Chloromethane	ND	0.0023	0.079		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
2-Chlorotoluene	ND	0.0019	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
4-Chlorotoluene	ND	0.0023	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
cis-1,2-DCE	ND	0.0015	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
cis-1,3-Dichloropropene	ND	0.0024	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,2-Dibromo-3-chloropropane	ND	0.0081	0.053		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Dibromochloromethane	ND	0.0024	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Dibromomethane	ND	0.0023	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,2-Dichlorobenzene	ND	0.0023	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,3-Dichlorobenzene	ND	0.0022	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,4-Dichlorobenzene	ND	0.0033	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Dichlorodifluoromethane	ND	0.0082	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,1-Dichloroethane	ND	0.0014	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,1-Dichloroethene	ND	0.0086	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,2-Dichloropropane	ND	0.0022	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,3-Dichloropropane	ND	0.0030	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
2,2-Dichloropropane	ND	0.0015	0.053		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,1-Dichloropropene	ND	0.0021	0.053		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Hexachlorobutadiene	ND	0.0032	0.053		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
2-Hexanone	ND	0.014	0.26		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Isopropylbenzene	ND	0.0023	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
4-Isopropyltoluene	ND	0.0024	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
4-Methyl-2-pentanone	ND	0.0077	0.26		mg/Kg	1	11/1/2016 7:24:14 AM	T38351

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-024**Client Sample ID:** SB-24 (0-5)**Collection Date:** 10/27/2016 9:20:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.017	0.0076	0.079	J	mg/Kg	1	11/1/2016 7:24:14 AM	T38351
n-Butylbenzene	ND	0.0023	0.079		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
n-Propylbenzene	ND	0.0020	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
sec-Butylbenzene	ND	0.0037	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Styrene	ND	0.0024	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
tert-Butylbenzene	ND	0.0022	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,1,1,2-Tetrachloroethane	ND	0.0025	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,1,2,2-Tetrachloroethane	ND	0.0043	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Tetrachloroethene (PCE)	ND	0.0022	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
trans-1,2-DCE	ND	0.0074	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
trans-1,3-Dichloropropene	ND	0.0039	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,2,3-Trichlorobenzene	ND	0.0039	0.053		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,2,4-Trichlorobenzene	ND	0.0028	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,1,1-Trichloroethane	ND	0.0016	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,1,2-Trichloroethane	ND	0.0031	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Trichloroethene (TCE)	ND	0.0028	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Trichlorofluoromethane	ND	0.0020	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
1,2,3-Trichloropropane	ND	0.0046	0.053		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Vinyl chloride	ND	0.0022	0.026		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Xylenes, Total	ND	0.0050	0.053		mg/Kg	1	11/1/2016 7:24:14 AM	T38351
Surr: Dibromofluoromethane	93.6	70-130		%Rec	1	11/1/2016 7:24:14 AM	T38351	
Surr: 1,2-Dichloroethane-d4	85.3	70-130		%Rec	1	11/1/2016 7:24:14 AM	T38351	
Surr: Toluene-d8	95.4	70-130		%Rec	1	11/1/2016 7:24:14 AM	T38351	
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	11/1/2016 7:24:14 AM	T38351	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.40	2.6		mg/Kg	1	11/1/2016 7:24:14 AM	GT3835
Surr: BFB	99.4	0	70-130		%Rec	1	11/1/2016 7:24:14 AM	GT3835

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-025**Matrix:** MEOH (SOIL)**Client Sample ID:** SB-25 (0-3)**Collection Date:** 10/27/2016 9:45:00 AM**Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	150	3.5	19		mg/Kg	2	11/5/2016 4:18:32 AM	28375
Motor Oil Range Organics (MRO)	300	94	94		mg/Kg	2	11/5/2016 4:18:32 AM	28375
Surr: DNOP	105	0	70-130		%Rec	2	11/5/2016 4:18:32 AM	28375
EPA METHOD 8310: PAHS								
Naphthalene	ND	6.9	49	D	mg/Kg	20	11/7/2016 7:12:05 AM	28417
1-Methylnaphthalene	ND	7.3	49	D	mg/Kg	20	11/7/2016 7:12:05 AM	28417
2-Methylnaphthalene	ND	6.9	49	D	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Acenaphthylene	ND	6.6	49	D	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Acenaphthene	ND	6.1	49	D	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Fluorene	ND	0.65	5.9	D	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Phenanthrene	3.0	0.32	3.0	D	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Anthracene	ND	0.47	3.0	D	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Fluoranthene	3.5	0.65	4.0	JD	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Pyrene	4.0	0.67	4.9	JD	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Benz(a)anthracene	0.89	0.099	2.0	JD	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Chrysene	0.74	0.28	2.0	JD	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Benzo(b)fluoranthene	0.69	0.14	2.0	JD	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Benzo(k)fluoranthene	0.49	0.079	2.0	JD	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Benzo(a)pyrene	0.54	0.079	2.0	JD	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Dibenz(a,h)anthracene	ND	0.099	2.0	D	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Benzo(g,h,i)perylene	0.59	0.12	2.0	JD	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Indeno(1,2,3-cd)pyrene	1.3	0.16	2.0	JD	mg/Kg	20	11/7/2016 7:12:05 AM	28417
Surr: Benzo(e)pyrene	0	0	27.4-110	SD	%Rec	20	11/7/2016 7:12:05 AM	28417
EPA METHOD 6010B: SOIL METALS								
Antimony	240	50	120		mg/Kg	50	11/2/2016 1:44:06 PM	28364
Arsenic	18	0.88	2.5		mg/Kg	1	11/2/2016 11:53:38 AM	28364
Chromium	4.5	0.093	0.30		mg/Kg	1	11/2/2016 11:53:38 AM	28364
Iron	15000	75	250		mg/Kg	100	11/2/2016 10:59:32 AM	28364
Lead	3900	17	25		mg/Kg	100	11/2/2016 10:59:32 AM	28364
Manganese	130	0.053	0.099		mg/Kg	1	11/2/2016 11:53:38 AM	28364
Thallium	ND	0.76	2.5		mg/Kg	1	11/2/2016 11:53:38 AM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.016	0.020		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Toluene	ND	0.0023	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Ethylbenzene	ND	0.0032	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Methyl tert-butyl ether (MTBE)	ND	0.012	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,2,4-Trimethylbenzene	ND	0.0029	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,3,5-Trimethylbenzene	ND	0.0028	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-025**Client Sample ID:** SB-25 (0-3)**Collection Date:** 10/27/2016 9:45:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.010	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,2-Dibromoethane (EDB)	ND	0.0028	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Naphthalene	0.059	0.0061	0.078	J	mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1-Methylnaphthalene	0.093	0.0087	0.16	J	mg/Kg	1	11/1/2016 12:46:15 PM	S38379
2-Methylnaphthalene	0.14	0.0084	0.16	J	mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Acetone	0.091	0.050	0.59	J	mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Bromobenzene	ND	0.0031	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Bromodichloromethane	ND	0.0023	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Bromoform	ND	0.0048	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Bromomethane	ND	0.014	0.12		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
2-Butanone	0.038	0.022	0.39	J	mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Carbon disulfide	ND	0.013	0.39		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Carbon tetrachloride	ND	0.0026	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Chlorobenzene	ND	0.0032	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Chloroethane	ND	0.0078	0.078		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Chloroform	0.014	0.0029	0.039	J	mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Chloromethane	ND	0.0035	0.12		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
2-Chlorotoluene	ND	0.0029	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
4-Chlorotoluene	ND	0.0035	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
cis-1,2-DCE	ND	0.0023	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
cis-1,3-Dichloropropene	ND	0.0036	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,2-Dibromo-3-chloropropane	ND	0.012	0.078		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Dibromochloromethane	ND	0.0035	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Dibromomethane	ND	0.0034	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,2-Dichlorobenzene	ND	0.0034	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,3-Dichlorobenzene	ND	0.0032	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,4-Dichlorobenzene	ND	0.0048	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Dichlorodifluoromethane	ND	0.012	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,1-Dichloroethane	ND	0.0021	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,1-Dichloroethene	ND	0.013	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,2-Dichloropropane	ND	0.0033	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,3-Dichloropropane	ND	0.0044	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
2,2-Dichloropropane	ND	0.0022	0.078		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,1-Dichloropropene	ND	0.0031	0.078		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Hexachlorobutadiene	ND	0.0048	0.078		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
2-Hexanone	ND	0.021	0.39		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Isopropylbenzene	ND	0.0034	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
4-Isopropyltoluene	ND	0.0035	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
4-Methyl-2-pentanone	0.029	0.011	0.39	J	mg/Kg	1	11/1/2016 12:46:15 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-025**Client Sample ID:** SB-25 (0-3)**Collection Date:** 10/27/2016 9:45:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.013	0.011	0.12	J	mg/Kg	1	11/1/2016 12:46:15 PM	S38379
n-Butylbenzene	ND	0.0035	0.12		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
n-Propylbenzene	ND	0.0030	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
sec-Butylbenzene	ND	0.0054	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Styrene	ND	0.0035	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
tert-Butylbenzene	ND	0.0032	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,1,1,2-Tetrachloroethane	ND	0.0037	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,1,2,2-Tetrachloroethane	ND	0.0063	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Tetrachloroethene (PCE)	ND	0.0032	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
trans-1,2-DCE	ND	0.011	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
trans-1,3-Dichloropropene	ND	0.0057	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,2,3-Trichlorobenzene	ND	0.0058	0.078		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,2,4-Trichlorobenzene	ND	0.0042	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,1,1-Trichloroethane	ND	0.0024	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,1,2-Trichloroethane	ND	0.0046	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Trichloroethene (TCE)	ND	0.0042	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Trichlorofluoromethane	ND	0.0029	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
1,2,3-Trichloropropane	ND	0.0067	0.078		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Vinyl chloride	ND	0.0032	0.039		mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Xylenes, Total	0.0098	0.0074	0.078	J	mg/Kg	1	11/1/2016 12:46:15 PM	S38379
Surr: Dibromofluoromethane	101		70-130		%Rec	1	11/1/2016 12:46:15 PM	S38379
Surr: 1,2-Dichloroethane-d4	100		70-130		%Rec	1	11/1/2016 12:46:15 PM	S38379
Surr: Toluene-d8	94.5		70-130		%Rec	1	11/1/2016 12:46:15 PM	S38379
Surr: 4-Bromofluorobenzene	93.7		70-130		%Rec	1	11/1/2016 12:46:15 PM	S38379
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.59	3.9		mg/Kg	1	11/1/2016 12:46:15 PM	G38379
Surr: BFB	100	0	70-130		%Rec	1	11/1/2016 12:46:15 PM	G38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-026**Client Sample ID:** SB-26 (10-15)**Collection Date:** 10/27/2016 10:02:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	ND	1.8	9.9		mg/Kg	1	11/2/2016 4:26:00 AM	28375
Motor Oil Range Organics (MRO)	ND	49	49		mg/Kg	1	11/2/2016 4:26:00 AM	28375
Surr: DNOP	98.8	0	70-130		%Rec	1	11/2/2016 4:26:00 AM	28375
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 7:41:21 AM	28417
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/7/2016 7:41:21 AM	28417
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Acenaphthylene	ND	0.033	0.25		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Acenaphthene	ND	0.031	0.25		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Phenanthrene	ND	0.0016	0.015		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Fluoranthene	ND	0.0033	0.020		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Pyrene	ND	0.0034	0.025		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Benz(a)anthracene	ND	0.00050	0.010		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Chrysene	ND	0.0014	0.010		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Benzo(b)fluoranthene	ND	0.00071	0.010		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Benzo(k)fluoranthene	ND	0.00040	0.010		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Benzo(a)pyrene	ND	0.00040	0.010		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Dibenz(a,h)anthracene	ND	0.00050	0.010		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Benzo(g,h,i)perylene	ND	0.00060	0.010		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Indeno(1,2,3-cd)pyrene	ND	0.00080	0.010		mg/Kg	1	11/7/2016 7:41:21 AM	28417
Surr: Benzo(e)pyrene	60.6	0	27.4-110		%Rec	1	11/7/2016 7:41:21 AM	28417
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.98	2.4		mg/Kg	1	11/2/2016 12:04:59 PM	28364
Arsenic	ND	0.86	2.4		mg/Kg	1	11/2/2016 12:04:59 PM	28364
Chromium	3.0	0.092	0.29		mg/Kg	1	11/2/2016 12:04:59 PM	28364
Iron	3900	73	240		mg/Kg	100	11/2/2016 11:01:04 AM	28364
Lead	1.6	0.17	0.24		mg/Kg	1	11/2/2016 12:04:59 PM	28364
Manganese	20	0.052	0.097		mg/Kg	1	11/2/2016 12:04:59 PM	28364
Thallium	ND	0.75	2.4		mg/Kg	1	11/2/2016 12:04:59 PM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.011	0.014		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Toluene	ND	0.0017	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Ethylbenzene	ND	0.0023	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Methyl tert-butyl ether (MTBE)	ND	0.0090	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,2,4-Trimethylbenzene	ND	0.0021	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,3,5-Trimethylbenzene	ND	0.0021	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-026**Client Sample ID:** SB-26 (10-15)**Collection Date:** 10/27/2016 10:02:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0074	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,2-Dibromoethane (EDB)	ND	0.0020	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Naphthalene	ND	0.0045	0.057		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1-Methylnaphthalene	ND	0.0063	0.11		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
2-Methylnaphthalene	ND	0.0061	0.11		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Acetone	0.043	0.037	0.43	J	mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Bromobenzene	ND	0.0023	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Bromodichloromethane	ND	0.0017	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Bromoform	ND	0.0035	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Bromomethane	ND	0.011	0.086		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
2-Butanone	ND	0.016	0.29		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Carbon disulfide	ND	0.0094	0.29		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Carbon tetrachloride	ND	0.0019	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Chlorobenzene	ND	0.0023	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Chloroethane	ND	0.0057	0.057		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Chloroform	ND	0.0022	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Chloromethane	ND	0.0025	0.086		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
2-Chlorotoluene	ND	0.0021	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
4-Chlorotoluene	ND	0.0025	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
cis-1,2-DCE	ND	0.0017	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
cis-1,3-Dichloropropene	ND	0.0026	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,2-Dibromo-3-chloropropane	ND	0.0087	0.057		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Dibromochloromethane	ND	0.0026	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Dibromomethane	ND	0.0025	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,2-Dichlorobenzene	ND	0.0025	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,3-Dichlorobenzene	ND	0.0023	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,4-Dichlorobenzene	ND	0.0035	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Dichlorodifluoromethane	ND	0.0088	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,1-Dichloroethane	ND	0.0015	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,1-Dichloroethene	ND	0.0093	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,2-Dichloropropane	ND	0.0024	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,3-Dichloropropane	ND	0.0032	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
2,2-Dichloropropane	ND	0.0016	0.057		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,1-Dichloropropene	ND	0.0023	0.057		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Hexachlorobutadiene	ND	0.0035	0.057		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
2-Hexanone	ND	0.016	0.29		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Isopropylbenzene	ND	0.0025	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
4-Isopropyltoluene	ND	0.0026	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
4-Methyl-2-pentanone	ND	0.0083	0.29		mg/Kg	1	11/1/2016 1:15:01 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
R RPD outside accepted recovery limits	RL Reporting Detection Limit	Page 77 of 119
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-026**Matrix:** MEOH (SOIL)**Client Sample ID:** SB-26 (10-15)**Collection Date:** 10/27/2016 10:02:00 AM**Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.013	0.0082	0.086	J	mg/Kg	1	11/1/2016 1:15:01 PM	S38379
n-Butylbenzene	ND	0.0025	0.086		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
n-Propylbenzene	ND	0.0022	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
sec-Butylbenzene	ND	0.0040	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Styrene	ND	0.0025	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
tert-Butylbenzene	ND	0.0024	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,1,1,2-Tetrachloroethane	ND	0.0027	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,1,2,2-Tetrachloroethane	ND	0.0046	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Tetrachloroethene (PCE)	ND	0.0024	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
trans-1,2-DCE	ND	0.0080	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
trans-1,3-Dichloropropene	ND	0.0042	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,2,3-Trichlorobenzene	ND	0.0043	0.057		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,2,4-Trichlorobenzene	ND	0.0031	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,1,1-Trichloroethane	ND	0.0017	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,1,2-Trichloroethane	ND	0.0034	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Trichloroethene (TCE)	ND	0.0031	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Trichlorofluoromethane	ND	0.0021	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
1,2,3-Trichloropropane	ND	0.0049	0.057		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Vinyl chloride	ND	0.0023	0.029		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Xylenes, Total	ND	0.0054	0.057		mg/Kg	1	11/1/2016 1:15:01 PM	S38379
Surr: Dibromofluoromethane	98.7	70-130		%Rec	1	11/1/2016 1:15:01 PM	S38379	
Surr: 1,2-Dichloroethane-d4	90.1	70-130		%Rec	1	11/1/2016 1:15:01 PM	S38379	
Surr: Toluene-d8	94.8	70-130		%Rec	1	11/1/2016 1:15:01 PM	S38379	
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	11/1/2016 1:15:01 PM	S38379	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.43	2.9		mg/Kg	1	11/1/2016 1:15:01 PM	G38379
Surr: BFB	99.6	0	70-130		%Rec	1	11/1/2016 1:15:01 PM	G38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-027**Client Sample ID:** SB-27 (0-5)**Collection Date:** 10/27/2016 10:38:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	ND	1.8	9.6		mg/Kg	1	11/2/2016 4:47:10 AM	28375
Motor Oil Range Organics (MRO)	ND	48	48		mg/Kg	1	11/2/2016 4:47:10 AM	28375
Surr: DNOP	100	0	70-130		%Rec	1	11/2/2016 4:47:10 AM	28375
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.034	0.25		mg/Kg	1	11/7/2016 8:10:31 AM	28417
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/7/2016 8:10:31 AM	28417
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Acenaphthylene	ND	0.033	0.25		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Acenaphthene	ND	0.030	0.25		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Phenanthrene	ND	0.0016	0.015		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Fluoranthene	ND	0.0033	0.020		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Pyrene	ND	0.0034	0.025		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Benz(a)anthracene	ND	0.00050	0.0099		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Chrysene	ND	0.0014	0.0099		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Benzo(b)fluoranthene	ND	0.00070	0.0099		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Benzo(k)fluoranthene	ND	0.00040	0.0099		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Benzo(a)pyrene	ND	0.00040	0.0099		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Dibenz(a,h)anthracene	ND	0.00050	0.0099		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Benzo(g,h,i)perylene	ND	0.00059	0.0099		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Indeno(1,2,3-cd)pyrene	ND	0.00079	0.0099		mg/Kg	1	11/7/2016 8:10:31 AM	28417
Surr: Benzo(e)pyrene	57.6	0	27.4-110		%Rec	1	11/7/2016 8:10:31 AM	28417
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.99	2.5		mg/Kg	1	11/2/2016 12:08:13 PM	28364
Arsenic	1.1	0.88	2.5	J	mg/Kg	1	11/2/2016 12:08:13 PM	28364
Chromium	3.6	0.093	0.30		mg/Kg	1	11/2/2016 12:08:13 PM	28364
Iron	8700	74	250		mg/Kg	100	11/2/2016 11:03:00 AM	28364
Lead	1.9	0.17	0.25		mg/Kg	1	11/2/2016 12:08:13 PM	28364
Manganese	130	0.053	0.098		mg/Kg	1	11/2/2016 12:08:13 PM	28364
Thallium	ND	0.76	2.5		mg/Kg	1	11/2/2016 12:08:13 PM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.012	0.015		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Toluene	ND	0.0017	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Ethylbenzene	ND	0.0024	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Methyl tert-butyl ether (MTBE)	ND	0.0093	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,2,4-Trimethylbenzene	ND	0.0022	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,3,5-Trimethylbenzene	ND	0.0021	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-027**Client Sample ID:** SB-27 (0-5)**Collection Date:** 10/27/2016 10:38:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0077	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,2-Dibromoethane (EDB)	ND	0.0021	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Naphthalene	ND	0.0046	0.059		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1-Methylnaphthalene	ND	0.0066	0.12		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
2-Methylnaphthalene	ND	0.0063	0.12		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Acetone	ND	0.038	0.44		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Bromobenzene	ND	0.0024	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Bromodichloromethane	ND	0.0017	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Bromoform	ND	0.0036	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Bromomethane	ND	0.011	0.088		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
2-Butanone	ND	0.017	0.30		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Carbon disulfide	ND	0.0097	0.30		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Carbon tetrachloride	ND	0.0019	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Chlorobenzene	ND	0.0024	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Chloroethane	ND	0.0059	0.059		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Chloroform	ND	0.0022	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Chloromethane	ND	0.0026	0.088		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
2-Chlorotoluene	ND	0.0022	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
4-Chlorotoluene	ND	0.0026	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
cis-1,2-DCE	ND	0.0017	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
cis-1,3-Dichloropropene	ND	0.0027	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,2-Dibromo-3-chloropropane	ND	0.0090	0.059		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Dibromochloromethane	ND	0.0027	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Dibromomethane	ND	0.0026	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,2-Dichlorobenzene	ND	0.0026	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,3-Dichlorobenzene	ND	0.0024	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,4-Dichlorobenzene	ND	0.0037	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Dichlorodifluoromethane	ND	0.0091	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,1-Dichloroethane	ND	0.0016	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,1-Dichloroethene	ND	0.0097	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,2-Dichloropropane	ND	0.0025	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,3-Dichloropropane	ND	0.0033	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
2,2-Dichloropropane	ND	0.0017	0.059		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,1-Dichloropropene	ND	0.0023	0.059		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Hexachlorobutadiene	ND	0.0036	0.059		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
2-Hexanone	ND	0.016	0.30		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Isopropylbenzene	ND	0.0025	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
4-Isopropyltoluene	ND	0.0026	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
4-Methyl-2-pentanone	ND	0.0086	0.30		mg/Kg	1	11/1/2016 2:12:22 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-027**Client Sample ID:** SB-27 (0-5)**Collection Date:** 10/27/2016 10:38:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.0091	0.0085	0.088	J	mg/Kg	1	11/1/2016 2:12:22 PM	S38379
n-Butylbenzene	ND	0.0026	0.088		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
n-Propylbenzene	ND	0.0023	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
sec-Butylbenzene	ND	0.0041	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Styrene	ND	0.0026	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
tert-Butylbenzene	ND	0.0024	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,1,1,2-Tetrachloroethane	ND	0.0028	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,1,2,2-Tetrachloroethane	ND	0.0048	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Tetrachloroethene (PCE)	ND	0.0024	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
trans-1,2-DCE	ND	0.0083	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
trans-1,3-Dichloropropene	ND	0.0043	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,2,3-Trichlorobenzene	ND	0.0044	0.059		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,2,4-Trichlorobenzene	ND	0.0032	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,1,1-Trichloroethane	ND	0.0018	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,1,2-Trichloroethane	ND	0.0035	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Trichloroethene (TCE)	ND	0.0032	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Trichlorofluoromethane	ND	0.0022	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
1,2,3-Trichloropropane	ND	0.0051	0.059		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Vinyl chloride	ND	0.0024	0.030		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Xylenes, Total	ND	0.0056	0.059		mg/Kg	1	11/1/2016 2:12:22 PM	S38379
Surr: Dibromofluoromethane	99.2	70-130		%Rec	1	11/1/2016 2:12:22 PM	S38379	
Surr: 1,2-Dichloroethane-d4	91.1	70-130		%Rec	1	11/1/2016 2:12:22 PM	S38379	
Surr: Toluene-d8	93.7	70-130		%Rec	1	11/1/2016 2:12:22 PM	S38379	
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	11/1/2016 2:12:22 PM	S38379	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.44	3.0		mg/Kg	1	11/1/2016 2:12:22 PM	G38379
Surr: BFB	98.4	0	70-130		%Rec	1	11/1/2016 2:12:22 PM	G38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-028**Client Sample ID:** SB-28 (0-5)**Collection Date:** 10/27/2016 10:57:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	ND	1.7	9.4		mg/Kg	1	11/2/2016 5:08:48 AM	28375
Motor Oil Range Organics (MRO)	ND	47	47		mg/Kg	1	11/2/2016 5:08:48 AM	28375
Surr: DNOP	104	0	70-130		%Rec	1	11/2/2016 5:08:48 AM	28375
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.034	0.24		mg/Kg	1	11/7/2016 8:39:44 AM	28417
1-Methylnaphthalene	ND	0.036	0.24		mg/Kg	1	11/7/2016 8:39:44 AM	28417
2-Methylnaphthalene	ND	0.034	0.24		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Acenaphthylene	ND	0.032	0.24		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Acenaphthene	ND	0.030	0.24		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Fluorene	ND	0.0032	0.029		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Phenanthrene	0.0017	0.0015	0.014	J	mg/Kg	1	11/7/2016 8:39:44 AM	28417
Anthracene	ND	0.0023	0.014		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Fluoranthene	ND	0.0032	0.019		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Pyrene	ND	0.0033	0.024		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Benz(a)anthracene	ND	0.00048	0.0096		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Chrysene	ND	0.0014	0.0096		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Benzo(b)fluoranthene	ND	0.00068	0.0096		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Benzo(k)fluoranthene	ND	0.00039	0.0096		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Benzo(a)pyrene	ND	0.00039	0.0096		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Dibenz(a,h)anthracene	ND	0.00048	0.0096		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Benzo(g,h,i)perylene	ND	0.00058	0.0096		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Indeno(1,2,3-cd)pyrene	ND	0.00077	0.0096		mg/Kg	1	11/7/2016 8:39:44 AM	28417
Surr: Benzo(e)pyrene	55.6	0	27.4-110		%Rec	1	11/7/2016 8:39:44 AM	28417
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.98	2.4		mg/Kg	1	11/2/2016 12:11:31 PM	28364
Arsenic	1.3	0.86	2.4	J	mg/Kg	1	11/2/2016 12:11:31 PM	28364
Chromium	4.1	0.092	0.29		mg/Kg	1	11/2/2016 12:11:31 PM	28364
Iron	9100	73	240		mg/Kg	100	11/2/2016 11:04:41 AM	28364
Lead	2.3	0.17	0.24		mg/Kg	1	11/2/2016 12:11:31 PM	28364
Manganese	210	0.052	0.097		mg/Kg	1	11/2/2016 12:11:31 PM	28364
Thallium	ND	0.75	2.4		mg/Kg	1	11/2/2016 12:11:31 PM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.010	0.013		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Toluene	ND	0.0016	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Ethylbenzene	ND	0.0021	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Methyl tert-butyl ether (MTBE)	ND	0.0082	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,2,4-Trimethylbenzene	ND	0.0019	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,3,5-Trimethylbenzene	ND	0.0019	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-028**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0068	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,2-Dibromoethane (EDB)	ND	0.0019	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Naphthalene	ND	0.0041	0.052		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1-Methylnaphthalene	ND	0.0058	0.10		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
2-Methylnaphthalene	ND	0.0056	0.10		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Acetone	ND	0.034	0.39		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Bromobenzene	ND	0.0021	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Bromodichloromethane	ND	0.0015	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Bromoform	ND	0.0032	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Bromomethane	ND	0.0096	0.079		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
2-Butanone	ND	0.015	0.26		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Carbon disulfide	ND	0.0086	0.26		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Carbon tetrachloride	ND	0.0017	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Chlorobenzene	ND	0.0021	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Chloroethane	ND	0.0052	0.052		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Chloroform	ND	0.0020	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Chloromethane	ND	0.0023	0.079		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
2-Chlorotoluene	ND	0.0019	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
4-Chlorotoluene	ND	0.0023	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
cis-1,2-DCE	ND	0.0015	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
cis-1,3-Dichloropropene	ND	0.0024	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,2-Dibromo-3-chloropropane	ND	0.0080	0.052		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Dibromochloromethane	ND	0.0024	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Dibromomethane	ND	0.0023	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,2-Dichlorobenzene	ND	0.0023	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,3-Dichlorobenzene	ND	0.0021	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,4-Dichlorobenzene	ND	0.0032	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Dichlorodifluoromethane	ND	0.0081	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,1-Dichloroethane	ND	0.0014	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,1-Dichloroethene	ND	0.0086	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,2-Dichloropropane	ND	0.0022	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,3-Dichloropropane	ND	0.0030	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
2,2-Dichloropropane	ND	0.0015	0.052		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,1-Dichloropropene	ND	0.0021	0.052		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Hexachlorobutadiene	ND	0.0032	0.052		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
2-Hexanone	ND	0.014	0.26		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Isopropylbenzene	ND	0.0023	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
4-Isopropyltoluene	ND	0.0024	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
4-Methyl-2-pentanone	0.013	0.0076	0.26	J	mg/Kg	1	11/1/2016 2:40:52 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-028**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.0081	0.0075	0.079	J	mg/Kg	1	11/1/2016 2:40:52 PM	S38379
n-Butylbenzene	ND	0.0023	0.079		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
n-Propylbenzene	ND	0.0020	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
sec-Butylbenzene	ND	0.0036	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Styrene	ND	0.0023	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
tert-Butylbenzene	ND	0.0022	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,1,1,2-Tetrachloroethane	ND	0.0025	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,1,2,2-Tetrachloroethane	ND	0.0042	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Tetrachloroethene (PCE)	ND	0.0022	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
trans-1,2-DCE	ND	0.0073	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
trans-1,3-Dichloropropene	ND	0.0038	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,2,3-Trichlorobenzene	ND	0.0039	0.052		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,2,4-Trichlorobenzene	ND	0.0028	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,1,1-Trichloroethane	ND	0.0016	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,1,2-Trichloroethane	ND	0.0031	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Trichloroethene (TCE)	ND	0.0028	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Trichlorofluoromethane	ND	0.0020	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
1,2,3-Trichloropropane	ND	0.0045	0.052		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Vinyl chloride	ND	0.0021	0.026		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Xylenes, Total	ND	0.0050	0.052		mg/Kg	1	11/1/2016 2:40:52 PM	S38379
Surr: Dibromofluoromethane	101	70-130		%Rec	1	11/1/2016 2:40:52 PM	S38379	
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%Rec	1	11/1/2016 2:40:52 PM	S38379	
Surr: Toluene-d8	97.4	70-130		%Rec	1	11/1/2016 2:40:52 PM	S38379	
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	11/1/2016 2:40:52 PM	S38379	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.39	2.6		mg/Kg	1	11/1/2016 2:40:52 PM	G38379
Surr: BFB	102	0	70-130		%Rec	1	11/1/2016 2:40:52 PM	G38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-029**Client Sample ID:** SB-29 (0-5)**Collection Date:** 10/27/2016 11:22:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	ND	1.7	9.3		mg/Kg	1	11/2/2016 5:30:28 AM	28375
Motor Oil Range Organics (MRO)	ND	47	47		mg/Kg	1	11/2/2016 5:30:28 AM	28375
Surr: DNOP	104	0	70-130		%Rec	1	11/2/2016 5:30:28 AM	28375
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 9:09:36 AM	28417
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/7/2016 9:09:36 AM	28417
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Acenaphthylene	ND	0.033	0.25		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Acenaphthene	ND	0.030	0.25		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Phenanthren	ND	0.0016	0.015		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Fluoranthene	ND	0.0033	0.020		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Pyrene	ND	0.0034	0.025		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Benz(a)anthracene	ND	0.00050	0.0099		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Chrysene	ND	0.0014	0.0099		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Benzo(b)fluoranthene	ND	0.00070	0.0099		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Benzo(k)fluoranthene	ND	0.00040	0.0099		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Benzo(a)pyrene	ND	0.00040	0.0099		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Dibenz(a,h)anthracene	ND	0.00050	0.0099		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Benzo(g,h,i)perylene	ND	0.00060	0.0099		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Indeno(1,2,3-cd)pyrene	ND	0.00079	0.0099		mg/Kg	1	11/7/2016 9:09:36 AM	28417
Surr: Benzo(e)pyrene	67.0	0	27.4-110		%Rec	1	11/7/2016 9:09:36 AM	28417
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	1.0	2.5		mg/Kg	1	11/2/2016 12:14:51 PM	28364
Arsenic	2.3	0.88	2.5	J	mg/Kg	1	11/2/2016 12:14:51 PM	28364
Chromium	6.0	0.094	0.30		mg/Kg	1	11/2/2016 12:14:51 PM	28364
Iron	10000	75	250		mg/Kg	100	11/2/2016 11:06:24 AM	28364
Lead	2.2	0.17	0.25		mg/Kg	1	11/2/2016 12:14:51 PM	28364
Manganese	210	0.053	0.099		mg/Kg	1	11/2/2016 12:14:51 PM	28364
Thallium	ND	0.77	2.5		mg/Kg	1	11/2/2016 12:14:51 PM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.011	0.014		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Toluene	ND	0.0016	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Ethylbenzene	ND	0.0023	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Methyl tert-butyl ether (MTBE)	ND	0.0087	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,2,4-Trimethylbenzene	ND	0.0020	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,3,5-Trimethylbenzene	ND	0.0020	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-029**Client Sample ID:** SB-29 (0-5)**Collection Date:** 10/27/2016 11:22:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0072	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,2-Dibromoethane (EDB)	ND	0.0020	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Naphthalene	ND	0.0043	0.055		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1-Methylnaphthalene	ND	0.0061	0.11		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
2-Methylnaphthalene	ND	0.0059	0.11		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Acetone	0.048	0.036	0.41	J	mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Bromobenzene	ND	0.0022	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Bromodichloromethane	ND	0.0016	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Bromoform	ND	0.0034	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Bromomethane	ND	0.010	0.083		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
2-Butanone	ND	0.016	0.28		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Carbon disulfide	ND	0.0091	0.28		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Carbon tetrachloride	ND	0.0018	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Chlorobenzene	ND	0.0022	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Chloroethane	ND	0.0055	0.055		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Chloroform	ND	0.0021	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Chloromethane	ND	0.0025	0.083		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
2-Chlorotoluene	ND	0.0020	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
4-Chlorotoluene	ND	0.0024	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
cis-1,2-DCE	ND	0.0016	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
cis-1,3-Dichloropropene	ND	0.0025	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,2-Dibromo-3-chloropropane	ND	0.0084	0.055		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Dibromochloromethane	ND	0.0025	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Dibromomethane	ND	0.0024	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,2-Dichlorobenzene	ND	0.0024	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,3-Dichlorobenzene	ND	0.0023	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,4-Dichlorobenzene	ND	0.0034	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Dichlorodifluoromethane	ND	0.0085	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,1-Dichloroethane	ND	0.0015	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,1-Dichloroethene	ND	0.0090	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,2-Dichloropropane	ND	0.0023	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,3-Dichloropropane	ND	0.0031	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
2,2-Dichloropropane	ND	0.0016	0.055		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,1-Dichloropropene	ND	0.0022	0.055		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Hexachlorobutadiene	ND	0.0034	0.055		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
2-Hexanone	ND	0.015	0.28		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Isopropylbenzene	ND	0.0024	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
4-Isopropyltoluene	ND	0.0025	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
4-Methyl-2-pentanone	ND	0.0080	0.28		mg/Kg	1	11/1/2016 3:09:30 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-029**Client Sample ID:** SB-29 (0-5)**Collection Date:** 10/27/2016 11:22:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.0084	0.0079	0.083	J	mg/Kg	1	11/1/2016 3:09:30 PM	S38379
n-Butylbenzene	ND	0.0024	0.083		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
n-Propylbenzene	ND	0.0021	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
sec-Butylbenzene	ND	0.0038	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Styrene	ND	0.0025	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
tert-Butylbenzene	ND	0.0023	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,1,1,2-Tetrachloroethane	ND	0.0026	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,1,2,2-Tetrachloroethane	ND	0.0045	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Tetrachloroethene (PCE)	ND	0.0023	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
trans-1,2-DCE	ND	0.0077	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
trans-1,3-Dichloropropene	ND	0.0040	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,2,3-Trichlorobenzene	ND	0.0041	0.055		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,2,4-Trichlorobenzene	ND	0.0029	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,1,1-Trichloroethane	ND	0.0017	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,1,2-Trichloroethane	ND	0.0032	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Trichloroethene (TCE)	ND	0.0030	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Trichlorofluoromethane	ND	0.0021	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
1,2,3-Trichloropropane	ND	0.0048	0.055		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Vinyl chloride	ND	0.0023	0.028		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Xylenes, Total	ND	0.0052	0.055		mg/Kg	1	11/1/2016 3:09:30 PM	S38379
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	11/1/2016 3:09:30 PM	S38379	
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%Rec	1	11/1/2016 3:09:30 PM	S38379	
Surr: Toluene-d8	93.6	70-130		%Rec	1	11/1/2016 3:09:30 PM	S38379	
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	11/1/2016 3:09:30 PM	S38379	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.41	2.8		mg/Kg	1	11/1/2016 3:09:30 PM	G38379
Surr: BFB	101	0	70-130		%Rec	1	11/1/2016 3:09:30 PM	G38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-030**Client Sample ID:** SB-30 (0-5)**Collection Date:** 10/27/2016 11:46:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	6.2	1.8	9.7	J	mg/Kg	1	11/2/2016 5:52:19 AM	28375
Motor Oil Range Organics (MRO)	ND	49	49		mg/Kg	1	11/2/2016 5:52:19 AM	28375
Surr: DNOP	107	0	70-130		%Rec	1	11/2/2016 5:52:19 AM	28375
EPA METHOD 8310: PAHS								
Naphthalene	0.052	0.035	0.25	J	mg/Kg	1	11/7/2016 9:38:49 AM	28417
1-Methylnaphthalene	0.087	0.037	0.25	J	mg/Kg	1	11/7/2016 9:38:49 AM	28417
2-Methylnaphthalene	0.12	0.035	0.25	J	mg/Kg	1	11/7/2016 9:38:49 AM	28417
Acenaphthylene	ND	0.033	0.25		mg/Kg	1	11/7/2016 9:38:49 AM	28417
Acenaphthene	ND	0.030	0.25		mg/Kg	1	11/7/2016 9:38:49 AM	28417
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/7/2016 9:38:49 AM	28417
Phenanthrene	0.031	0.0016	0.015		mg/Kg	1	11/7/2016 9:38:49 AM	28417
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/7/2016 9:38:49 AM	28417
Fluoranthene	0.0067	0.0033	0.020	J	mg/Kg	1	11/7/2016 9:38:49 AM	28417
Pyrene	0.011	0.0034	0.025	J	mg/Kg	1	11/7/2016 9:38:49 AM	28417
Benz(a)anthracene	0.0027	0.00050	0.010	J	mg/Kg	1	11/7/2016 9:38:49 AM	28417
Chrysene	0.0060	0.0014	0.010	J	mg/Kg	1	11/7/2016 9:38:49 AM	28417
Benzo(b)fluoranthene	ND	0.00070	0.010		mg/Kg	1	11/7/2016 9:38:49 AM	28417
Benzo(k)fluoranthene	0.0020	0.00040	0.010	J	mg/Kg	1	11/7/2016 9:38:49 AM	28417
Benzo(a)pyrene	0.0037	0.00040	0.010	J	mg/Kg	1	11/7/2016 9:38:49 AM	28417
Dibenz(a,h)anthracene	ND	0.00050	0.010		mg/Kg	1	11/7/2016 9:38:49 AM	28417
Benzo(g,h,i)perylene	0.0022	0.00060	0.010	J	mg/Kg	1	11/7/2016 9:38:49 AM	28417
Indeno(1,2,3-cd)pyrene	0.016	0.00080	0.010		mg/Kg	1	11/7/2016 9:38:49 AM	28417
Surr: Benzo(e)pyrene	60.4	0	27.4-110		%Rec	1	11/7/2016 9:38:49 AM	28417
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	1.0	2.5		mg/Kg	1	11/2/2016 12:18:16 PM	28364
Arsenic	3.4	0.88	2.5		mg/Kg	1	11/2/2016 12:18:16 PM	28364
Chromium	7.3	0.093	0.30		mg/Kg	1	11/2/2016 12:18:16 PM	28364
Iron	12000	75	250		mg/Kg	100	11/2/2016 11:07:57 AM	28364
Lead	3.2	0.17	0.25		mg/Kg	1	11/2/2016 12:18:16 PM	28364
Manganese	300	0.11	0.20		mg/Kg	2	11/2/2016 12:19:50 PM	28364
Thallium	ND	0.76	2.5		mg/Kg	1	11/2/2016 12:18:16 PM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.015	0.019		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Toluene	ND	0.0023	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Ethylbenzene	0.0035	0.0031	0.038	J	mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Methyl tert-butyl ether (MTBE)	ND	0.012	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,2,4-Trimethylbenzene	ND	0.0028	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,3,5-Trimethylbenzene	ND	0.0028	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-030**Client Sample ID:** SB-30 (0-5)**Collection Date:** 10/27/2016 11:46:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.010	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,2-Dibromoethane (EDB)	ND	0.0027	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Naphthalene	ND	0.0060	0.076		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1-Methylnaphthalene	ND	0.0085	0.15		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
2-Methylnaphthalene	ND	0.0082	0.15		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Acetone	0.052	0.049	0.57	J	mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Bromobenzene	ND	0.0031	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Bromodichloromethane	ND	0.0022	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Bromoform	ND	0.0046	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Bromomethane	ND	0.014	0.11		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
2-Butanone	ND	0.022	0.38		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Carbon disulfide	ND	0.013	0.38		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Carbon tetrachloride	ND	0.0025	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Chlorobenzene	ND	0.0031	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Chloroethane	ND	0.0076	0.076		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Chloroform	ND	0.0029	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Chloromethane	ND	0.0034	0.11		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
2-Chlorotoluene	ND	0.0028	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
4-Chlorotoluene	ND	0.0034	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
cis-1,2-DCE	ND	0.0022	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
cis-1,3-Dichloropropene	ND	0.0035	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,2-Dibromo-3-chloropropane	ND	0.012	0.076		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Dibromochloromethane	ND	0.0034	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Dibromomethane	ND	0.0033	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,2-Dichlorobenzene	ND	0.0033	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,3-Dichlorobenzene	ND	0.0031	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,4-Dichlorobenzene	ND	0.0047	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Dichlorodifluoromethane	ND	0.012	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,1-Dichloroethane	ND	0.0021	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,1-Dichloroethene	ND	0.012	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,2-Dichloropropane	ND	0.0032	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,3-Dichloropropane	ND	0.0043	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
2,2-Dichloropropane	ND	0.0022	0.076		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,1-Dichloropropene	ND	0.0030	0.076		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Hexachlorobutadiene	ND	0.0047	0.076		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
2-Hexanone	ND	0.021	0.38		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Isopropylbenzene	ND	0.0033	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
4-Isopropyltoluene	ND	0.0034	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
4-Methyl-2-pentanone	ND	0.011	0.38		mg/Kg	1	11/1/2016 3:38:01 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-030**Client Sample ID:** SB-30 (0-5)**Collection Date:** 10/27/2016 11:46:00 AM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.012	0.011	0.11	J	mg/Kg	1	11/1/2016 3:38:01 PM	S38379
n-Butylbenzene	ND	0.0034	0.11		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
n-Propylbenzene	ND	0.0029	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
sec-Butylbenzene	ND	0.0053	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Styrene	ND	0.0034	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
tert-Butylbenzene	ND	0.0032	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,1,1,2-Tetrachloroethane	ND	0.0037	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,1,2,2-Tetrachloroethane	ND	0.0062	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Tetrachloroethene (PCE)	ND	0.0032	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
trans-1,2-DCE	ND	0.011	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
trans-1,3-Dichloropropene	ND	0.0056	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,2,3-Trichlorobenzene	ND	0.0057	0.076		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,2,4-Trichlorobenzene	ND	0.0041	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,1,1-Trichloroethane	ND	0.0023	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,1,2-Trichloroethane	ND	0.0045	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Trichloroethene (TCE)	ND	0.0041	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Trichlorofluoromethane	ND	0.0029	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
1,2,3-Trichloropropane	ND	0.0066	0.076		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Vinyl chloride	ND	0.0031	0.038		mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Xylenes, Total	0.047	0.0072	0.076	J	mg/Kg	1	11/1/2016 3:38:01 PM	S38379
Surr: Dibromofluoromethane	99.5		70-130		%Rec	1	11/1/2016 3:38:01 PM	S38379
Surr: 1,2-Dichloroethane-d4	92.4		70-130		%Rec	1	11/1/2016 3:38:01 PM	S38379
Surr: Toluene-d8	95.4		70-130		%Rec	1	11/1/2016 3:38:01 PM	S38379
Surr: 4-Bromofluorobenzene	98.6		70-130		%Rec	1	11/1/2016 3:38:01 PM	S38379
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.57	3.8		mg/Kg	1	11/1/2016 3:38:01 PM	G38379
Surr: BFB	101	0	70-130		%Rec	1	11/1/2016 3:38:01 PM	G38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-031**Client Sample ID:** SB-31 (0-5)**Collection Date:** 10/27/2016 12:50:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	ND	1.8	9.6		mg/Kg	1	11/2/2016 6:13:51 AM	28375
Motor Oil Range Organics (MRO)	ND	48	48		mg/Kg	1	11/2/2016 6:13:51 AM	28375
Surr: DNOP	91.0	0	70-130		%Rec	1	11/2/2016 6:13:51 AM	28375
EPA METHOD 8310: PAHS								
Naphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 10:08:03 AM	28417
1-Methylnaphthalene	ND	0.037	0.25		mg/Kg	1	11/7/2016 10:08:03 AM	28417
2-Methylnaphthalene	ND	0.035	0.25		mg/Kg	1	11/7/2016 10:08:03 AM	28417
Acenaphthylene	ND	0.034	0.25		mg/Kg	1	11/7/2016 10:08:03 AM	28417
Acenaphthene	ND	0.031	0.25		mg/Kg	1	11/7/2016 10:08:03 AM	28417
Fluorene	ND	0.0033	0.030		mg/Kg	1	11/7/2016 10:08:03 AM	28417
Phenanthrene	0.0023	0.0016	0.015	J	mg/Kg	1	11/7/2016 10:08:03 AM	28417
Anthracene	ND	0.0024	0.015		mg/Kg	1	11/7/2016 10:08:03 AM	28417
Fluoranthene	ND	0.0033	0.020		mg/Kg	1	11/7/2016 10:08:03 AM	28417
Pyrene	ND	0.0034	0.025		mg/Kg	1	11/7/2016 10:08:03 AM	28417
Benz(a)anthracene	0.00050	0.00050	0.010	J	mg/Kg	1	11/7/2016 10:08:03 AM	28417
Chrysene	ND	0.0014	0.010		mg/Kg	1	11/7/2016 10:08:03 AM	28417
Benzo(b)fluoranthene	ND	0.00071	0.010		mg/Kg	1	11/7/2016 10:08:03 AM	28417
Benzo(k)fluoranthene	ND	0.00040	0.010		mg/Kg	1	11/7/2016 10:08:03 AM	28417
Benzo(a)pyrene	0.00050	0.00040	0.010	J	mg/Kg	1	11/7/2016 10:08:03 AM	28417
Dibenz(a,h)anthracene	ND	0.00050	0.010		mg/Kg	1	11/7/2016 10:08:03 AM	28417
Benzo(g,h,i)perylene	ND	0.00060	0.010		mg/Kg	1	11/7/2016 10:08:03 AM	28417
Indeno(1,2,3-cd)pyrene	0.0020	0.00081	0.010	J	mg/Kg	1	11/7/2016 10:08:03 AM	28417
Surr: Benzo(e)pyrene	63.2	0	27.4-110		%Rec	1	11/7/2016 10:08:03 AM	28417
EPA METHOD 6010B: SOIL METALS								
Antimony	ND	0.98	2.4		mg/Kg	1	11/2/2016 12:29:38 PM	28364
Arsenic	3.7	0.87	2.4		mg/Kg	1	11/2/2016 12:29:38 PM	28364
Chromium	5.9	0.092	0.29		mg/Kg	1	11/2/2016 12:29:38 PM	28364
Iron	9300	74	240		mg/Kg	100	11/2/2016 11:09:30 AM	28364
Lead	4.8	0.17	0.24		mg/Kg	1	11/2/2016 12:29:38 PM	28364
Manganese	280	0.10	0.20		mg/Kg	2	11/2/2016 12:31:22 PM	28364
Thallium	ND	0.75	2.4		mg/Kg	1	11/2/2016 12:29:38 PM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.015	0.019		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Toluene	ND	0.0022	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Ethylbenzene	ND	0.0031	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Methyl tert-butyl ether (MTBE)	ND	0.012	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,2,4-Trimethylbenzene	ND	0.0028	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,3,5-Trimethylbenzene	ND	0.0027	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-031**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0098	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,2-Dibromoethane (EDB)	ND	0.0027	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Naphthalene	ND	0.0059	0.075		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1-Methylnaphthalene	ND	0.0083	0.15		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
2-Methylnaphthalene	ND	0.0080	0.15		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Acetone	0.057	0.048	0.56	J	mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Bromobenzene	ND	0.0030	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Bromodichloromethane	ND	0.0022	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Bromoform	ND	0.0046	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Bromomethane	ND	0.014	0.11		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
2-Butanone	ND	0.021	0.37		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Carbon disulfide	ND	0.012	0.37		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Carbon tetrachloride	ND	0.0025	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Chlorobenzene	ND	0.0030	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Chloroethane	ND	0.0075	0.075		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Chloroform	ND	0.0028	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Chloromethane	ND	0.0033	0.11		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
2-Chlorotoluene	ND	0.0028	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
4-Chlorotoluene	ND	0.0033	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
cis-1,2-DCE	ND	0.0022	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
cis-1,3-Dichloropropene	ND	0.0035	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,2-Dibromo-3-chloropropane	ND	0.011	0.075		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Dibromochloromethane	ND	0.0034	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Dibromomethane	ND	0.0032	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,2-Dichlorobenzene	ND	0.0033	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,3-Dichlorobenzene	ND	0.0031	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,4-Dichlorobenzene	ND	0.0046	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Dichlorodifluoromethane	ND	0.012	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,1-Dichloroethane	ND	0.0020	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,1-Dichloroethene	ND	0.012	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,2-Dichloropropane	ND	0.0031	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,3-Dichloropropane	ND	0.0042	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
2,2-Dichloropropane	ND	0.0021	0.075		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,1-Dichloropropene	ND	0.0030	0.075		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Hexachlorobutadiene	ND	0.0046	0.075		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
2-Hexanone	ND	0.020	0.37		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Isopropylbenzene	ND	0.0032	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
4-Isopropyltoluene	ND	0.0034	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
4-Methyl-2-pentanone	ND	0.011	0.37		mg/Kg	1	11/1/2016 4:06:51 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-031**Client Sample ID:** SB-31 (0-5)**Collection Date:** 10/27/2016 12:50:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.012	0.011	0.11	J	mg/Kg	1	11/1/2016 4:06:51 PM	S38379
n-Butylbenzene	ND	0.0033	0.11		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
n-Propylbenzene	ND	0.0029	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
sec-Butylbenzene	ND	0.0052	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Styrene	ND	0.0033	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
tert-Butylbenzene	ND	0.0031	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,1,1,2-Tetrachloroethane	ND	0.0036	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,1,2,2-Tetrachloroethane	ND	0.0061	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Tetrachloroethene (PCE)	ND	0.0031	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
trans-1,2-DCE	ND	0.010	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
trans-1,3-Dichloropropene	ND	0.0055	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,2,3-Trichlorobenzene	ND	0.0056	0.075		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,2,4-Trichlorobenzene	ND	0.0040	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,1,1-Trichloroethane	ND	0.0023	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,1,2-Trichloroethane	ND	0.0044	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Trichloroethene (TCE)	ND	0.0040	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Trichlorofluoromethane	ND	0.0028	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
1,2,3-Trichloropropane	ND	0.0065	0.075		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Vinyl chloride	ND	0.0031	0.037		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Xylenes, Total	ND	0.0071	0.075		mg/Kg	1	11/1/2016 4:06:51 PM	S38379
Surr: Dibromofluoromethane	100	70-130		%Rec	1	11/1/2016 4:06:51 PM	S38379	
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%Rec	1	11/1/2016 4:06:51 PM	S38379	
Surr: Toluene-d8	94.9	70-130		%Rec	1	11/1/2016 4:06:51 PM	S38379	
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	11/1/2016 4:06:51 PM	S38379	
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	ND	0.56	3.7		mg/Kg	1	11/1/2016 4:06:51 PM	G38379
Surr: BFB	100	0	70-130		%Rec	1	11/1/2016 4:06:51 PM	G38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-032**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS								
Diesel Range Organics (DRO)	24	1.8	9.5		mg/Kg	1	11/3/2016 3:18:51 AM	28375
Motor Oil Range Organics (MRO)	69	48	48		mg/Kg	1	11/3/2016 3:18:51 AM	28375
Surr: DNOP	0	0	70-130	S	%Rec	1	11/3/2016 3:18:51 AM	28375
EPA METHOD 8310: PAHS								
Naphthalene	ND	3.5	25	D	mg/Kg	10	11/7/2016 11:06:30 AM	28417
1-Methylnaphthalene	ND	3.7	25	D	mg/Kg	10	11/7/2016 11:06:30 AM	28417
2-Methylnaphthalene	ND	3.5	25	D	mg/Kg	10	11/7/2016 11:06:30 AM	28417
Acenaphthylene	ND	3.3	25	D	mg/Kg	10	11/7/2016 11:06:30 AM	28417
Acenaphthene	ND	3.0	25	D	mg/Kg	10	11/7/2016 11:06:30 AM	28417
Fluorene	ND	0.33	3.0	D	mg/Kg	10	11/7/2016 11:06:30 AM	28417
Phenanthrene	8.5	0.16	1.5	D	mg/Kg	10	11/7/2016 11:06:30 AM	28417
Anthracene	0.97	0.24	1.5	JD	mg/Kg	10	11/7/2016 11:06:30 AM	28417
Fluoranthene	16	0.33	2.0	D	mg/Kg	10	11/7/2016 11:06:30 AM	28417
Pyrene	15	0.34	2.5	D	mg/Kg	10	11/7/2016 11:06:30 AM	28417
Benz(a)anthracene	6.5	0.25	5.0	D	mg/Kg	50	11/7/2016 4:57:48 PM	28417
Chrysene	4.7	0.14	0.99	D	mg/Kg	10	11/7/2016 11:06:30 AM	28417
Benzo(b)fluoranthene	4.4	0.14	2.0	D	mg/Kg	20	11/7/2016 4:28:36 PM	28417
Benzo(k)fluoranthene	3.2	0.080	2.0	D	mg/Kg	20	11/7/2016 4:28:36 PM	28417
Benzo(a)pyrene	7.1	0.20	5.0	D	mg/Kg	50	11/7/2016 4:57:48 PM	28417
Dibenz(a,h)anthracene	0.40	0.050	0.99	JD	mg/Kg	10	11/7/2016 11:06:30 AM	28417
Benzo(g,h,i)perylene	4.3	0.12	2.0	D	mg/Kg	20	11/7/2016 4:28:36 PM	28417
Indeno(1,2,3-cd)pyrene	1.5	0.080	0.99	D	mg/Kg	10	11/7/2016 11:06:30 AM	28417
Surr: Benzo(e)pyrene	0	0	27.4-110	SD	%Rec	10	11/7/2016 11:06:30 AM	28417
EPA METHOD 6010B: SOIL METALS								
Antimony	3.6	0.97	2.4		mg/Kg	1	11/2/2016 12:33:02 PM	28364
Arsenic	17	0.86	2.4		mg/Kg	1	11/2/2016 12:33:02 PM	28364
Chromium	12	0.091	0.29		mg/Kg	1	11/2/2016 12:33:02 PM	28364
Iron	18000	73	240		mg/Kg	100	11/2/2016 11:17:20 AM	28364
Lead	210	0.84	1.2		mg/Kg	5	11/4/2016 10:35:46 AM	28364
Manganese	390	0.10	0.19		mg/Kg	2	11/2/2016 12:34:54 PM	28364
Thallium	ND	0.74	2.4		mg/Kg	1	11/2/2016 12:33:02 PM	28364
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.012	0.015		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Toluene	0.0045	0.0018	0.030	J	mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Ethylbenzene	ND	0.0025	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Methyl tert-butyl ether (MTBE)	ND	0.0095	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,2,4-Trimethylbenzene	0.0026	0.0022	0.030	J	mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,3,5-Trimethylbenzene	ND	0.0022	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
R RPD outside accepted recovery limits	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-032**Client Sample ID:** SB-32 (0-3)**Collection Date:** 10/27/2016 1:05:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,2-Dichloroethane (EDC)	ND	0.0079	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,2-Dibromoethane (EDB)	ND	0.0022	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Naphthalene	0.0057	0.0047	0.061	J	mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1-Methylnaphthalene	ND	0.0067	0.12		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
2-Methylnaphthalene	0.0095	0.0065	0.12	J	mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Acetone	0.094	0.039	0.45	J	mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Bromobenzene	ND	0.0024	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Bromodichloromethane	ND	0.0018	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Bromoform	ND	0.0037	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Bromomethane	ND	0.011	0.091		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
2-Butanone	ND	0.017	0.30		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Carbon disulfide	ND	0.010	0.30		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Carbon tetrachloride	ND	0.0020	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Chlorobenzene	ND	0.0025	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Chloroethane	ND	0.0060	0.061		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Chloroform	0.024	0.0023	0.030	J	mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Chloromethane	ND	0.0027	0.091		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
2-Chlorotoluene	ND	0.0022	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
4-Chlorotoluene	ND	0.0027	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
cis-1,2-DCE	ND	0.0018	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
cis-1,3-Dichloropropene	ND	0.0028	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,2-Dibromo-3-chloropropane	ND	0.0093	0.061		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Dibromochloromethane	ND	0.0027	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Dibromomethane	ND	0.0026	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,2-Dichlorobenzene	ND	0.0026	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,3-Dichlorobenzene	ND	0.0025	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,4-Dichlorobenzene	ND	0.0038	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Dichlorodifluoromethane	ND	0.0094	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,1-Dichloroethane	ND	0.0016	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,1-Dichloroethene	ND	0.0099	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,2-Dichloropropane	ND	0.0025	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,3-Dichloropropane	ND	0.0034	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
2,2-Dichloropropane	ND	0.0017	0.061		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,1-Dichloropropene	ND	0.0024	0.061		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Hexachlorobutadiene	ND	0.0037	0.061		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
2-Hexanone	ND	0.016	0.30		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Isopropylbenzene	ND	0.0026	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
4-Isopropyltoluene	ND	0.0027	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
4-Methyl-2-pentanone	0.015	0.0088	0.30	J	mg/Kg	1	11/1/2016 1:43:43 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-032**Client Sample ID:** SB-32 (0-3)**Collection Date:** 10/27/2016 1:05:00 PM**Matrix:** MEOH (SOIL) **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Methylene chloride	0.0088	0.0087	0.091	J	mg/Kg	1	11/1/2016 1:43:43 PM	S38379
n-Butylbenzene	ND	0.0027	0.091		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
n-Propylbenzene	ND	0.0023	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
sec-Butylbenzene	ND	0.0042	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Styrene	ND	0.0027	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
tert-Butylbenzene	ND	0.0025	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,1,1,2-Tetrachloroethane	ND	0.0029	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,1,2,2-Tetrachloroethane	ND	0.0049	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Tetrachloroethene (PCE)	ND	0.0025	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
trans-1,2-DCE	ND	0.0085	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
trans-1,3-Dichloropropene	ND	0.0044	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,2,3-Trichlorobenzene	ND	0.0045	0.061		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,2,4-Trichlorobenzene	ND	0.0032	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,1,1-Trichloroethane	ND	0.0018	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,1,2-Trichloroethane	ND	0.0036	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Trichloroethene (TCE)	ND	0.0032	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Trichlorofluoromethane	ND	0.0023	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
1,2,3-Trichloropropane	ND	0.0052	0.061		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Vinyl chloride	ND	0.0025	0.030		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Xylenes, Total	ND	0.0057	0.061		mg/Kg	1	11/1/2016 1:43:43 PM	S38379
Surr: Dibromofluoromethane	99.3	70-130			%Rec	1	11/1/2016 1:43:43 PM	S38379
Surr: 1,2-Dichloroethane-d4	91.9	70-130			%Rec	1	11/1/2016 1:43:43 PM	S38379
Surr: Toluene-d8	96.3	70-130			%Rec	1	11/1/2016 1:43:43 PM	S38379
Surr: 4-Bromofluorobenzene	95.3	70-130			%Rec	1	11/1/2016 1:43:43 PM	S38379
EPA METHOD 8015D MOD: GASOLINE RANGE								
Gasoline Range Organics (GRO)	0.70	0.46	3.0	J	mg/Kg	1	11/1/2016 1:43:43 PM	G38379
Surr: BFB	99.5	0	70-130		%Rec	1	11/1/2016 1:43:43 PM	G38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-033**Matrix:** MEOH BLAN**Client Sample ID:** MEOH BLANK**Collection Date:****Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
Benzene	ND	0.020	0.025		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Toluene	ND	0.0030	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Ethylbenzene	ND	0.0041	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Methyl tert-butyl ether (MTBE)	ND	0.016	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,2,4-Trimethylbenzene	ND	0.0037	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,3,5-Trimethylbenzene	ND	0.0036	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,2-Dichloroethane (EDC)	ND	0.013	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,2-Dibromoethane (EDB)	ND	0.0036	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Naphthalene	ND	0.0078	0.10		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1-Methylnaphthalene	ND	0.011	0.20		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
2-Methylnaphthalene	ND	0.011	0.20		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Acetone	ND	0.065	0.75		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Bromobenzene	ND	0.0040	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Bromodichloromethane	ND	0.0029	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Bromoform	ND	0.0061	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Bromomethane	ND	0.018	0.15		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
2-Butanone	ND	0.029	0.50		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Carbon disulfide	ND	0.017	0.50		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Carbon tetrachloride	ND	0.0033	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Chlorobenzene	ND	0.0041	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Chloroethane	ND	0.010	0.10		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Chloroform	ND	0.0038	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Chloromethane	0.017	0.0044	0.15	J	mg/Kg	1	11/1/2016 4:35:34 PM	S38379
2-Chlorotoluene	ND	0.0037	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
4-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
cis-1,2-DCE	ND	0.0029	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
cis-1,3-Dichloropropene	ND	0.0046	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,2-Dibromo-3-chloropropane	ND	0.015	0.10		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Dibromochloromethane	ND	0.0045	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Dibromomethane	ND	0.0043	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,2-Dichlorobenzene	ND	0.0044	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,3-Dichlorobenzene	ND	0.0041	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,4-Dichlorobenzene	ND	0.0062	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Dichlorodifluoromethane	ND	0.015	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,1-Dichloroethane	ND	0.0027	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,1-Dichloroethene	ND	0.016	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,2-Dichloropropane	ND	0.0042	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,3-Dichloropropane	ND	0.0057	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
2,2-Dichloropropane	ND	0.0029	0.10		mg/Kg	1	11/1/2016 4:35:34 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	Page 97 of 119
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
R RPD outside accepted recovery limits	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Intera, Inc.**Project:** COA Railyards**Lab ID:** 1610E23-033**Client Sample ID:** MEOH BLANK**Collection Date:****Matrix:** MEOH BLAN **Received Date:** 10/28/2016 10:11:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES								
1,1-Dichloropropene	ND	0.0040	0.10		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Hexachlorobutadiene	ND	0.0061	0.10		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
2-Hexanone	ND	0.027	0.50		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Isopropylbenzene	ND	0.0043	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
4-Methyl-2-pentanone	ND	0.015	0.50		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Methylene chloride	0.017	0.014	0.15	J	mg/Kg	1	11/1/2016 4:35:34 PM	S38379
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
n-Propylbenzene	ND	0.0038	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
sec-Butylbenzene	ND	0.0069	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Styrene	ND	0.0045	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
tert-Butylbenzene	ND	0.0041	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,1,1,2-Tetrachloroethane	ND	0.0048	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,1,2,2-Tetrachloroethane	ND	0.0081	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Tetrachloroethene (PCE)	ND	0.0041	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
trans-1,2-DCE	ND	0.014	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
trans-1,3-Dichloropropene	ND	0.0073	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,2,3-Trichlorobenzene	ND	0.0075	0.10		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,2,4-Trichlorobenzene	ND	0.0053	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,1,1-Trichloroethane	ND	0.0031	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,1,2-Trichloroethane	ND	0.0059	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Trichloroethene (TCE)	ND	0.0054	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Trichlorofluoromethane	ND	0.0037	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
1,2,3-Trichloropropane	ND	0.0086	0.10		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Xylenes, Total	ND	0.0095	0.10		mg/Kg	1	11/1/2016 4:35:34 PM	S38379
Surr: Dibromofluoromethane	102		70-130		%Rec	1	11/1/2016 4:35:34 PM	S38379
Surr: 1,2-Dichloroethane-d4	97.0		70-130		%Rec	1	11/1/2016 4:35:34 PM	S38379
Surr: Toluene-d8	96.1		70-130		%Rec	1	11/1/2016 4:35:34 PM	S38379
Surr: 4-Bromofluorobenzene	98.2		70-130		%Rec	1	11/1/2016 4:35:34 PM	S38379

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	Page 98 of 119
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
R RPD outside accepted recovery limits	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	1610E23-018AMS	SampType:	MS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	SB-18 (3-6)	Batch ID:	28375	RunNo: 38355						
Prep Date:	10/31/2016	Analysis Date:	11/1/2016	SeqNo: 1198166 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.20	3.258	86.1	33.9	141			
Surr: DNOP	4.4		5.020		86.9	70	130			

Sample ID	1610E23-018AMSD	SampType:	MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	SB-18 (3-6)	Batch ID:	28375	RunNo: 38355						
Prep Date:	10/31/2016	Analysis Date:	11/2/2016	SeqNo: 1198167 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.45	3.258	90.9	33.9	141	5.47	20	
Surr: DNOP	4.6		5.045		91.0	70	130	0	0	

Sample ID	LCS-28372	SampType:	LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	LCSS	Batch ID:	28372	RunNo: 38355						
Prep Date:	10/31/2016	Analysis Date:	11/1/2016	SeqNo: 1198183 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.0	62.6	124			
Surr: DNOP	4.0		5.000		79.6	70	130			

Sample ID	LCS-28375	SampType:	LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	LCSS	Batch ID:	28375	RunNo: 38355						
Prep Date:	10/31/2016	Analysis Date:	11/1/2016	SeqNo: 1198184 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.9	62.6	124			
Surr: DNOP	4.4		5.000		87.3	70	130			

Sample ID	MB-28372	SampType:	MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	PBS	Batch ID:	28372	RunNo: 38355						
Prep Date:	10/31/2016	Analysis Date:	11/1/2016	SeqNo: 1198185 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.1	70	130			

Qualifiers:										
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank							
D	Sample Diluted Due to Matrix	E	Value above quantitation range							
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits							Page 99 of 119
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range							
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit							
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified							

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID: MB-28375	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 28375	RunNo: 38355								
Prep Date: 10/31/2016	Analysis Date: 11/1/2016	SeqNo: 1198186 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.3	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	rb	SampType:	MBLK	TestCode: EPA Method 8260B: Volatiles							
Client ID:	PBS	Batch ID:	S38351	RunNo: 38351							
Prep Date:		Analysis Date:	10/31/2016	SeqNo: 1197175 Units: mg/Kg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Methyl tert-butyl ether (MTBE)		ND	0.050								
1,2,4-Trimethylbenzene		ND	0.050								
1,3,5-Trimethylbenzene		ND	0.050								
1,2-Dichloroethane (EDC)		ND	0.050								
1,2-Dibromoethane (EDB)		ND	0.050								
Naphthalene		ND	0.10								
1-Methylnaphthalene		ND	0.20								
2-Methylnaphthalene		ND	0.20								
Acetone		ND	0.75								
Bromobenzene		ND	0.050								
Bromodichloromethane		ND	0.050								
Bromoform		ND	0.050								
Bromomethane		ND	0.15								
2-Butanone		0.046	0.50							J	
Carbon disulfide		ND	0.50								
Carbon tetrachloride		ND	0.050								
Chlorobenzene		ND	0.050								
Chloroethane		ND	0.10								
Chloroform		ND	0.050								
Chloromethane		0.016	0.15							J	
2-Chlorotoluene		ND	0.050								
4-Chlorotoluene		ND	0.050								
cis-1,2-DCE		ND	0.050								
cis-1,3-Dichloropropene		ND	0.050								
1,2-Dibromo-3-chloropropane		ND	0.10								
Dibromochloromethane		ND	0.050								
Dibromomethane		ND	0.050								
1,2-Dichlorobenzene		ND	0.050								
1,3-Dichlorobenzene		ND	0.050								
1,4-Dichlorobenzene		ND	0.050								
Dichlorodifluoromethane		ND	0.050								
1,1-Dichloroethane		ND	0.050								
1,1-Dichloroethene		ND	0.050								
1,2-Dichloropropane		ND	0.050								
1,3-Dichloropropane		ND	0.050								
2,2-Dichloropropane		ND	0.10								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles						
Client ID:	PBS	Batch ID:	S38351	RunNo:	38351						
Prep Date:		Analysis Date:	10/31/2016	SeqNo:	1197175 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene		ND	0.10								
Hexachlorobutadiene		ND	0.10								
2-Hexanone		ND	0.50								
Isopropylbenzene		ND	0.050								
4-Isopropyltoluene		ND	0.050								
4-Methyl-2-pentanone		ND	0.50								
Methylene chloride		0.018	0.15								J
n-Butylbenzene		ND	0.15								
n-Propylbenzene		ND	0.050								
sec-Butylbenzene		ND	0.050								
Styrene		ND	0.050								
tert-Butylbenzene		ND	0.050								
1,1,1,2-Tetrachloroethane		ND	0.050								
1,1,2,2-Tetrachloroethane		ND	0.050								
Tetrachloroethene (PCE)		ND	0.050								
trans-1,2-DCE		ND	0.050								
trans-1,3-Dichloropropene		ND	0.050								
1,2,3-Trichlorobenzene		ND	0.10								
1,2,4-Trichlorobenzene		ND	0.050								
1,1,1-Trichloroethane		ND	0.050								
1,1,2-Trichloroethane		ND	0.050								
Trichloroethene (TCE)		ND	0.050								
Trichlorofluoromethane		ND	0.050								
1,2,3-Trichloropropane		ND	0.10								
Vinyl chloride		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: Dibromofluoromethane	0.50		0.5000		101	70	130				
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.8	70	130				
Surr: Toluene-d8	0.47		0.5000		94.6	70	130				
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130				

Sample ID	100NG LCS	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles						
Client ID:	LCSS	Batch ID:	S38351	RunNo:	38351						
Prep Date:		Analysis Date:	10/31/2016	SeqNo:	1197178 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.96	0.025	1.000	0	96.1	70	130			
Toluene		1.0	0.050	1.000	0	102	70	130			
Chlorobenzene		1.0	0.050	1.000	0	100	70	130			

Qualifiers:										
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank							
D	Sample Diluted Due to Matrix	E	Value above quantitation range							
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits							Page 102 of 119
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range							
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit							
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified							

QC SUMMARY REPORT

WO#: 1610E23

1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	100NG LCS	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles					
Client ID:	LCSS	Batch ID:	S38351	RunNo:	38351					
Prep Date:		Analysis Date:	10/31/2016	SeqNo:	1197178	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.0	0.050	1.000	0	102	72	146			
Trichloroethene (TCE)	0.97	0.050	1.000	0	96.8	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.0	70	130			
Surr: Toluene-d8	0.49		0.5000		98.2	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.4	70	130			

Sample ID	1610e23-001ams	SampType:	MS	TestCode:	EPA Method 8260B: Volatiles					
Client ID:	SB-1 (9-10)	Batch ID:	S38351	RunNo:	38351					
Prep Date:	Analysis Date:	10/31/2016	SeqNo:	1197182	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.019	0.7710	0	112	49.2	155			
Toluene	0.81	0.039	0.7710	0	105	52	154			
Chlorobenzene	0.80	0.039	0.7710	0	104	53.2	150			
1,1-Dichloroethene	1.2	0.039	0.7710	0	151	34.2	163			
Trichloroethene (TCE)	0.90	0.039	0.7710	0	117	48.2	151			
Surrogate: Dibromofluoromethane	0.40		0.3855		104	70	130			
Surrogate: 1,2-Dichloroethane-d4	0.39		0.3855		101	70	130			
Surrogate: Toluene-d8	0.36		0.3855		92.8	70	130			
Surrogate: 4-Bromofluorobenzene	0.36		0.3855		94.4	70	130			

Sample ID	1610e23-001amsd	SampType:	MSD	TestCode:	EPA Method 8260B: Volatiles					
Client ID:	SB-1 (9-10)	Batch ID:	S38351	RunNo:	38351					
Prep Date:		Analysis Date:	10/31/2016	SeqNo:	1197183					
				Units:	mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.019	0.7710	0	103	49.2	155	8.97	20	
Toluene	0.79	0.039	0.7710	0	102	52	154	2.25	20	
Chlorobenzene	0.79	0.039	0.7710	0	102	53.2	150	1.93	20	
1,1-Dichloroethene	1.0	0.039	0.7710	0	131	34.2	163	13.9	20	
Trichloroethene (TCE)	0.82	0.039	0.7710	0	107	48.2	151	9.17	20	
Surr: Dibromofluoromethane	0.39		0.3855		101	70	130	0	0	
Surr: 1,2-Dichloroethane-d4	0.39		0.3855		100	70	130	0	0	
Surr: Toluene-d8	0.36		0.3855		94.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.37		0.3855		95.5	70	130	0	0	

Qualifiers:

- | | | | |
|----|---|----|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID: rb1	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles								
Client ID: PBS	Batch ID: T38351	RunNo: 38351								
Prep Date:	Analysis Date: 11/1/2016	SeqNo: 1197203 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	rb1	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles						
Client ID:	PBS	Batch ID:	T38351	RunNo:	38351						
Prep Date:		Analysis Date:	11/1/2016	SeqNo:	1197203						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene		ND	0.10								
Hexachlorobutadiene		ND	0.10								
2-Hexanone		ND	0.50								
Isopropylbenzene		ND	0.050								
4-Isopropyltoluene		ND	0.050								
4-Methyl-2-pentanone		ND	0.50								
Methylene chloride		0.022	0.15								J
n-Butylbenzene		ND	0.15								
n-Propylbenzene		ND	0.050								
sec-Butylbenzene		ND	0.050								
Styrene		ND	0.050								
tert-Butylbenzene		ND	0.050								
1,1,1,2-Tetrachloroethane		ND	0.050								
1,1,2,2-Tetrachloroethane		ND	0.050								
Tetrachloroethene (PCE)		ND	0.050								
trans-1,2-DCE		ND	0.050								
trans-1,3-Dichloropropene		ND	0.050								
1,2,3-Trichlorobenzene		ND	0.10								
1,2,4-Trichlorobenzene		ND	0.050								
1,1,1-Trichloroethane		ND	0.050								
1,1,2-Trichloroethane		ND	0.050								
Trichloroethene (TCE)		ND	0.050								
Trichlorofluoromethane		ND	0.050								
1,2,3-Trichloropropane		ND	0.10								
Vinyl chloride		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: Dibromofluoromethane	0.50		0.5000		101	70	130				
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.3	70	130				
Surr: Toluene-d8	0.48		0.5000		95.1	70	130				
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.5	70	130				

Sample ID	100ng lcs2	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles						
Client ID:	LCSS	Batch ID:	T38351	RunNo:	38351						
Prep Date:		Analysis Date:	11/1/2016	SeqNo:	1197204						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.1	0.025	1.000	0	107	70	130			
Toluene		1.1	0.050	1.000	0	106	70	130			
Chlorobenzene		1.0	0.050	1.000	0	103	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Detection Limit
 W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

WO#: 1610E23

1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	100ng lcs2	SampType:	LCS	TestCode: EPA Method 8260B: Volatiles								
Client ID:	LCSS	Batch ID:	T38351	RunNo: 38351								
Prep Date:	Analysis Date: 11/1/2016			SeqNo: 1197204			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
1,1-Dichloroethene	1.1	0.050	1.000	0	109	72	146					
Trichloroethene (TCE)	1.1	0.050	1.000	0	106	70	130					
Surr: Dibromofluoromethane	0.49		0.5000		98.9	70	130					
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.8	70	130					
Surr: Toluene-d8	0.48		0.5000		95.1	70	130					
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.7	70	130					

Sample ID	1610e23-021ams2	SampType:	MS	TestCode:	EPA Method 8260B: Volatiles					
Client ID:	SB-21 (0-5)	Batch ID:	T38351	RunNo:	38351					
Prep Date:		Analysis Date:	11/1/2016	SeqNo:	1197208					
				Units:	mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.61	0.015	0.6068	0	101	49.2	155			
Toluene	0.67	0.030	0.6068	0	110	52	154			
Chlorobenzene	0.65	0.030	0.6068	0	107	53.2	150			
1,1-Dichloroethene	0.70	0.030	0.6068	0	115	34.2	163			
Trichloroethene (TCE)	0.65	0.030	0.6068	0	108	48.2	151			
Surr: Dibromofluoromethane	0.30		0.3034		100	70	130			
Surr: 1,2-Dichloroethane-d4	0.29		0.3034		94.1	70	130			
Surr: Toluene-d8	0.29		0.3034		96.5	70	130			
Surr: 4-Bromofluorobenzene	0.29		0.3034		96.0	70	130			

Sample ID	1610e23-021amsd2	SampType:	MSD	TestCode: EPA Method 8260B: Volatiles							
Client ID:	SB-21 (0-5)	Batch ID: T38351				RunNo: 38351					
Prep Date:	Analysis Date: 11/1/2016				SeqNo: 1197209		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.60	0.015	0.6068	0	99.7	49.2	155	1.02	20		
Toluene	0.62	0.030	0.6068	0	101	52	154	8.30	20		
Chlorobenzene	0.61	0.030	0.6068	0	100	53.2	150	6.34	20		
1,1-Dichloroethene	0.68	0.030	0.6068	0	111	34.2	163	3.14	20		
Trichloroethene (TCE)	0.64	0.030	0.6068	0	106	48.2	151	2.17	20		
Surr: Dibromofluoromethane	0.30		0.3034		99.3	70	130	0	0		
Surr: 1,2-Dichloroethane-d4	0.28		0.3034		92.9	70	130	0	0		
Surr: Toluene-d8	0.28		0.3034		93.5	70	130	0	0		
Surr: 4-Bromofluorobenzene	0.29		0.3034		96.5	70	130	0	0		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
 - D Sample Diluted Due to Matrix
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits
 - S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - P Sample pH Not In Range
 - RL Reporting Detection Limit
 - W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID: rb2	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles								
Client ID: PBS	Batch ID: S38379	RunNo: 38379								
Prep Date:	Analysis Date: 11/1/2016	SeqNo: 1198239 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	rb2	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles						
Client ID:	PBS	Batch ID:	S38379	RunNo:	38379						
Prep Date:		Analysis Date:	11/1/2016	SeqNo:	1198239 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene		ND	0.10								
Hexachlorobutadiene		ND	0.10								
2-Hexanone		ND	0.50								
Isopropylbenzene		ND	0.050								
4-Isopropyltoluene		ND	0.050								
4-Methyl-2-pentanone		ND	0.50								
Methylene chloride		0.015	0.15								J
n-Butylbenzene		ND	0.15								
n-Propylbenzene		ND	0.050								
sec-Butylbenzene		ND	0.050								
Styrene		ND	0.050								
tert-Butylbenzene		ND	0.050								
1,1,1,2-Tetrachloroethane		ND	0.050								
1,1,2,2-Tetrachloroethane		ND	0.050								
Tetrachloroethene (PCE)		ND	0.050								
trans-1,2-DCE		ND	0.050								
trans-1,3-Dichloropropene		ND	0.050								
1,2,3-Trichlorobenzene		ND	0.10								
1,2,4-Trichlorobenzene		0.0065	0.050								J
1,1,1-Trichloroethane		ND	0.050								
1,1,2-Trichloroethane		ND	0.050								
Trichloroethene (TCE)		ND	0.050								
Trichlorofluoromethane		ND	0.050								
1,2,3-Trichloropropane		ND	0.10								
Vinyl chloride		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: Dibromofluoromethane	0.49		0.5000		97.4	70	130				
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.5	70	130				
Surr: Toluene-d8	0.47		0.5000		94.0	70	130				
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.6	70	130				

Sample ID	100ng lcs2	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles						
Client ID:	LCSS	Batch ID:	S38379	RunNo:	38379						
Prep Date:		Analysis Date:	11/1/2016	SeqNo:	1198240 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.025	1.000	0	103	70	130			
Toluene		1.1	0.050	1.000	0	107	70	130			
Chlorobenzene		1.1	0.050	1.000	0	106	70	130			

Qualifiers:										
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank							
D	Sample Diluted Due to Matrix	E	Value above quantitation range							
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits							Page 108 of 119
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range							
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit							
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified							

QC SUMMARY REPORT

WO#: 1610E23

1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	100ng lcs2	SampType:	LCS	TestCode: EPA Method 8260B: Volatiles								
Client ID:	LCSS	Batch ID:	S38379	RunNo: 38379								
Prep Date:	Analysis Date: 11/1/2016			SeqNo: 1198240			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
1,1-Dichloroethene	1.0	0.050	1.000	0	104	72	146					
Trichloroethene (TCE)	1.0	0.050	1.000	0	104	70	130					
Surr: Dibromofluoromethane	0.48		0.5000		95.8	70	130					
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.8	70	130					
Surr: Toluene-d8	0.48		0.5000		95.1	70	130					
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.5	70	130					

Sample ID	1610e23-025ams	SampType:	MS	TestCode: EPA Method 8260B: Volatiles						
Client ID:	SB-25 (0-3)	Batch ID: S38379			RunNo: 38379					
Prep Date:	Analysis Date: 11/1/2016			SeqNo: 1198244			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.020	0.7806	0	102	49.2	155			
Toluene	0.83	0.039	0.7806	0	106	52	154			
Chlorobenzene	0.81	0.039	0.7806	0	104	53.2	150			
1,1-Dichloroethene	0.89	0.039	0.7806	0	114	34.2	163			
Trichloroethene (TCE)	0.83	0.039	0.7806	0	107	48.2	151			
Surrogate: Dibromofluoromethane	0.36		0.3903		92.7	70	130			
Surrogate: 1,2-Dichloroethane-d4	0.36		0.3903		91.7	70	130			
Surrogate: Toluene-d8	0.37		0.3903		94.6	70	130			
Surrogate: 4-Bromofluorobenzene	0.37		0.3903		94.0	70	130			

Sample ID	1610e23-025amsd	SampType:	MSD	TestCode:	EPA Method 8260B: Volatiles					
Client ID:	SB-25 (0-3)	Batch ID:	S38379	RunNo:	38379					
Prep Date:		Analysis Date:	11/1/2016	SeqNo:	1198245					
				Units:	mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.020	0.7806	0	98.6	49.2	155	3.39	20	
Toluene	0.83	0.039	0.7806	0	107	52	154	0.410	20	
Chlorobenzene	0.81	0.039	0.7806	0	104	53.2	150	0.587	20	
1,1-Dichloroethene	0.87	0.039	0.7806	0	112	34.2	163	1.65	20	
Trichloroethene (TCE)	0.81	0.039	0.7806	0	104	48.2	151	2.70	20	
Surr: Dibromofluoromethane	0.38		0.3903		96.3	70	130	0	0	
Surr: 1,2-Dichloroethane-d4	0.35		0.3903		90.5	70	130	0	0	
Surr: Toluene-d8	0.37		0.3903		93.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.37		0.3903		94.9	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
 - D Sample Diluted Due to Matrix
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits
 - S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - P Sample pH Not In Range
 - RL Reporting Detection Limit
 - W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	MB-28374	SampType:	MBLK	TestCode: EPA Method 8310: PAHs						
Client ID:	PBS	Batch ID:	28374	RunNo: 38471						
Prep Date:	10/31/2016	Analysis Date:	11/6/2016	SeqNo: 1201307 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.25								
1-Methylnaphthalene	ND	0.25								
2-Methylnaphthalene	ND	0.25								
Acenaphthylene	ND	0.25								
Acenaphthene	ND	0.25								
Fluorene	ND	0.030								
Phenanthrene	ND	0.015								
Anthracene	ND	0.015								
Fluoranthene	ND	0.020								
Pyrene	ND	0.025								
Benz(a)anthracene	ND	0.010								
Chrysene	ND	0.010								
Benzo(b)fluoranthene	0.0010	0.010								J
Benzo(k)fluoranthene	0.00075	0.010								J
Benzo(a)pyrene	ND	0.010								
Dibenz(a,h)anthracene	ND	0.010								
Benzo(g,h,i)perylene	ND	0.010								
Indeno(1,2,3-cd)pyrene	0.0015	0.010								J
Surr: Benzo(e)pyrene	0.20	0.5000			40.6	27.4	110			

Sample ID	LCS-28374	SampType:	LCS	TestCode: EPA Method 8310: PAHs						
Client ID:	LCSS	Batch ID:	28374	RunNo: 38471						
Prep Date:	10/31/2016	Analysis Date:	11/6/2016	SeqNo: 1201308 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.1	0.25	2.000	0	56.5	38.1	121			
1-Methylnaphthalene	1.2	0.25	2.000	0	57.7	39.8	121			
2-Methylnaphthalene	1.1	0.25	2.000	0	57.1	38.6	119			
Acenaphthylene	1.2	0.25	2.000	0	59.4	56.9	119			
Acenaphthene	1.2	0.25	2.000	0	58.7	39.1	121			
Fluorene	0.12	0.030	0.2000	0	60.8	35.8	116			
Phenanthrene	0.064	0.015	0.1006	0	63.4	34.3	126			
Anthracene	0.057	0.015	0.1006	0	56.7	31.2	117			
Fluoranthene	0.13	0.020	0.2006	0	64.1	31.2	136			
Pyrene	0.13	0.025	0.2000	0	66.4	40.8	128			
Benz(a)anthracene	0.013	0.010	0.02000	0	63.8	25.7	136			
Chrysene	0.065	0.010	0.1006	0	64.6	34.2	129			
Benzo(b)fluoranthene	0.016	0.010	0.02500	0	63.0	33.2	121			
Benzo(k)fluoranthene	0.0082	0.010	0.01250	0	66.0	35.7	130			J

Qualifiers:										
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank							
D	Sample Diluted Due to Matrix	E	Value above quantitation range							
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits							Page 110 of 119
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range							
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit							
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified							

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	LCS-28374	SampType:	LCS	TestCode: EPA Method 8310: PAHs						
Client ID:	LCSS	Batch ID:	28374	RunNo: 38471						
Prep Date:	10/31/2016	Analysis Date:	11/6/2016	SeqNo: 1201308 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(a)pyrene	0.0075	0.010	0.01250	0	60.0	27	131			J
Dibenz(a,h)anthracene	0.016	0.010	0.02500	0	65.0	29.4	131			
Benzo(g,h,i)perylene	0.016	0.010	0.02500	0	66.0	32.9	130			
Indeno(1,2,3-cd)pyrene	0.030	0.010	0.05002	0	60.5	28.2	135			
Surr: Benzo(e)pyrene	0.28		0.5000		55.2	27.4	110			

Sample ID	MB-28398	SampType:	MBLK	TestCode: EPA Method 8310: PAHs						
Client ID:	PBS	Batch ID:	28398	RunNo: 38471						
Prep Date:	11/1/2016	Analysis Date:	11/6/2016	SeqNo: 1201309 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.25								
1-Methylnaphthalene	ND	0.25								
2-Methylnaphthalene	ND	0.25								
Acenaphthylene	ND	0.25								
Acenaphthene	ND	0.25								
Fluorene	ND	0.030								
Phenanthrene	ND	0.015								
Anthracene	ND	0.015								
Fluoranthene	ND	0.020								
Pyrene	ND	0.025								
Benz(a)anthracene	ND	0.010								
Chrysene	ND	0.010								
Benzo(b)fluoranthene	ND	0.010								
Benzo(k)fluoranthene	ND	0.010								
Benzo(a)pyrene	ND	0.010								
Dibenz(a,h)anthracene	ND	0.010								
Benzo(g,h,i)perylene	ND	0.010								
Indeno(1,2,3-cd)pyrene	ND	0.010								
Surr: Benzo(e)pyrene	0.26		0.5000		51.9	27.4	110			

Sample ID	LCS-28398	SampType:	LCS	TestCode: EPA Method 8310: PAHs						
Client ID:	LCSS	Batch ID:	28398	RunNo: 38471						
Prep Date:	11/1/2016	Analysis Date:	11/6/2016	SeqNo: 1201310 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.4	0.25	2.000	0	68.4	38.1	121			
1-Methylnaphthalene	1.4	0.25	2.000	0	72.3	39.8	121			
2-Methylnaphthalene	1.4	0.25	2.000	0	71.0	38.6	119			
Acenaphthylene	1.5	0.25	2.000	0	74.4	56.9	119			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	LCS-28398	SampType:	LCS	TestCode: EPA Method 8310: PAHs						
Client ID:	LCSS	Batch ID:	28398	RunNo: 38471						
Prep Date:	11/1/2016	Analysis Date:	11/6/2016	SeqNo: 1201310 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.5	0.25	2.000	0	75.5	39.1	121			
Fluorene	0.15	0.030	0.2000	0	77.4	35.8	116			
Phenanthrene	0.082	0.015	0.1006	0	81.5	34.3	126			
Anthracene	0.074	0.015	0.1006	0	73.8	31.2	117			
Fluoranthene	0.17	0.020	0.2006	0	83.5	31.2	136			
Pyrene	0.17	0.025	0.2000	0	87.2	40.8	128			
Benz(a)anthracene	0.016	0.010	0.02000	0	82.5	25.7	136			
Chrysene	0.085	0.010	0.1006	0	84.2	34.2	129			
Benzo(b)fluoranthene	0.020	0.010	0.02500	0	81.0	33.2	121			
Benzo(k)fluoranthene	0.011	0.010	0.01250	0	84.0	35.7	130			
Benzo(a)pyrene	0.0098	0.010	0.01250	0	78.0	27	131	J		
Dibenz(a,h)anthracene	0.020	0.010	0.02500	0	82.0	29.4	131			
Benzo(g,h,i)perylene	0.021	0.010	0.02500	0	84.0	32.9	130			
Indeno(1,2,3-cd)pyrene	0.039	0.010	0.05002	0	77.5	28.2	135			
Surr: Benzo(e)pyrene	0.41		0.5000		81.5	27.4	110			

Sample ID	MB-28417	SampType:	MBLK	TestCode: EPA Method 8310: PAHs						
Client ID:	PBS	Batch ID:	28417	RunNo: 38471						
Prep Date:	11/2/2016	Analysis Date:	11/6/2016	SeqNo: 1201315 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.25								
1-Methylnaphthalene	ND	0.25								
2-Methylnaphthalene	ND	0.25								
Acenaphthylene	ND	0.25								
Acenaphthene	ND	0.25								
Fluorene	ND	0.030								
Phenanthrene	0.0032	0.015								J
Anthracene	ND	0.015								
Fluoranthene	0.0088	0.020								J
Pyrene	0.0072	0.025								J
Benz(a)anthracene	0.0038	0.010								J
Chrysene	0.0060	0.010								J
Benzo(b)fluoranthene	0.0032	0.010								J
Benzo(k)fluoranthene	0.0018	0.010								J
Benzo(a)pyrene	0.0032	0.010								J
Dibenz(a,h)anthracene	0.0012	0.010								J
Benzo(g,h,i)perylene	0.0030	0.010								J
Indeno(1,2,3-cd)pyrene	0.0025	0.010								J

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Detection Limit
 W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	MB-28417	SampType:	MBLK	TestCode: EPA Method 8310: PAHs						
Client ID:	PBS	Batch ID:	28417	RunNo: 38471						
Prep Date:	11/2/2016	Analysis Date:	11/6/2016	SeqNo: 1201315 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Benzo(e)pyrene	0.33		0.5000		65.3	27.4	110			

Sample ID	LCS-28417	SampType:	LCS	TestCode: EPA Method 8310: PAHs						
Client ID:	LCSS	Batch ID:	28417	RunNo: 38471						
Prep Date:	11/2/2016	Analysis Date:	11/6/2016	SeqNo: 1201316 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.3	0.25	2.000	0	64.3	38.1	121			
1-Methylnaphthalene	1.4	0.25	2.000	0	69.4	39.8	121			
2-Methylnaphthalene	1.4	0.25	2.000	0	68.0	38.6	119			
Acenaphthylene	1.5	0.25	2.000	0	73.6	56.9	119			
Acenaphthene	1.5	0.25	2.000	0	75.5	39.1	121			
Fluorene	0.16	0.030	0.2000	0	78.0	35.8	116			
Phenanthrene	0.085	0.015	0.1006	0	84.5	34.3	126			
Anthracene	0.079	0.015	0.1006	0	78.3	31.2	117			
Fluoranthene	0.17	0.020	0.2006	0	85.7	31.2	136			
Pyrene	0.18	0.025	0.2000	0	90.5	40.8	128			
Benz(a)anthracene	0.017	0.010	0.02000	0	86.2	25.7	136			
Chrysene	0.089	0.010	0.1006	0	88.2	34.2	129			
Benzo(b)fluoranthene	0.020	0.010	0.02500	0	82.0	33.2	121			
Benzo(k)fluoranthene	0.011	0.010	0.01250	0	86.0	35.7	130			
Benzo(a)pyrene	0.011	0.010	0.01250	0	84.0	27	131			
Dibenz(a,h)anthracene	0.021	0.010	0.02500	0	85.0	29.4	131			
Benzo(g,h,i)perylene	0.022	0.010	0.02500	0	89.0	32.9	130			
Indeno(1,2,3-cd)pyrene	0.040	0.010	0.05002	0	80.5	28.2	135			
Surr: Benzo(e)pyrene	0.38		0.5000		75.1	27.4	110			

Sample ID	1610E23-010AMS	SampType:	MS	TestCode: EPA Method 8310: PAHs						
Client ID:	SB-10 (5-10)	Batch ID:	28398	RunNo: 38471						
Prep Date:	11/1/2016	Analysis Date:	11/6/2016	SeqNo: 1201341 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.1	0.25	1.969	0	58.4	24.8	102			
1-Methylnaphthalene	1.2	0.25	1.969	0	60.8	25.2	100			
2-Methylnaphthalene	1.2	0.25	1.969	0	60.5	23.7	98.4			
Acenaphthylene	1.2	0.25	1.969	0	59.1	29.2	112			
Acenaphthene	1.2	0.25	1.969	0	60.1	21.8	102			
Fluorene	0.12	0.030	0.1969	0	59.8	21	102			
Phenanthrene	0.062	0.015	0.09906	0	62.4	23.3	109			
Anthracene	0.060	0.015	0.09906	0	60.6	26.3	101			

Qualifiers:										
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank							
D	Sample Diluted Due to Matrix	E	Value above quantitation range							
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits							Page 113 of 119
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range							
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit							
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified							

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID 1610E23-010AMS		SampType: MS		TestCode: EPA Method 8310: PAHs							
Client ID: SB-10 (5-10)		Batch ID: 28398		RunNo: 38471							
Prep Date: 11/1/2016		Analysis Date: 11/6/2016		SeqNo: 1201341		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoranthene	0.12	0.020	0.1975	0	61.2	30.6	104				
Pyrene	0.12	0.025	0.1969	0	62.5	32.2	106				
Benz(a)anthracene	0.012	0.0098	0.01969	0	62.5	16.2	111				
Chrysene	0.061	0.0098	0.09906	0	61.1	28.6	104				
Benzo(b)fluoranthene	0.015	0.0098	0.02462	0	60.0	25.5	96.5				
Benzo(k)fluoranthene	0.0076	0.0098	0.01231	0	62.0	26.5	107			J	
Benzo(a)pyrene	0.0076	0.0098	0.01231	0	62.0	26.1	105			J	
Dibenz(a,h)anthracene	0.015	0.0098	0.02462	0	60.0	25.7	109				
Benzo(g,h,i)perylene	0.015	0.0098	0.02462	0	59.0	20.3	111				
Indeno(1,2,3-cd)pyrene	0.027	0.0098	0.04926	0	55.0	28.7	103				
Surr: Benzo(e)pyrene	0.24		0.4924		49.2	27.4	110				

Sample ID 1610E23-010AMSD		SampType: MSD		TestCode: EPA Method 8310: PAHs							
Client ID: SB-10 (5-10)		Batch ID: 28398		RunNo: 38471							
Prep Date: 11/1/2016		Analysis Date: 11/6/2016		SeqNo: 1201342		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Naphthalene	1.2	0.25	1.984	0	61.2	24.8	102	5.55	29.3		
1-Methylnaphthalene	1.2	0.25	1.984	0	62.4	25.2	100	3.38	20		
2-Methylnaphthalene	1.2	0.25	1.984	0	62.0	23.7	98.4	3.25	20		
Acenaphthylene	1.2	0.25	1.984	0	62.2	29.2	112	5.83	22.6		
Acenaphthene	1.3	0.25	1.984	0	63.6	21.8	102	6.40	20		
Fluorene	0.12	0.030	0.1984	0	62.8	21	102	5.64	20		
Phenanthrene	0.064	0.015	0.09980	0	64.6	23.3	109	4.26	27.6		
Anthracene	0.063	0.015	0.09980	0	63.4	26.3	101	5.15	29.2		
Fluoranthene	0.13	0.020	0.1990	0	63.9	30.6	104	5.12	29.2		
Pyrene	0.13	0.025	0.1984	0	64.9	32.2	106	4.47	28.6		
Benz(a)anthracene	0.013	0.0099	0.01984	0	65.0	16.2	111	4.66	26.1		
Chrysene	0.063	0.0099	0.09980	0	63.4	28.6	104	4.33	26.6		
Benzo(b)fluoranthene	0.015	0.0099	0.02480	0	60.0	25.5	96.5	0.741	27.9		
Benzo(k)fluoranthene	0.0079	0.0099	0.01240	0	64.0	26.5	107	3.92	27.7	J	
Benzo(a)pyrene	0.0077	0.0099	0.01240	0	62.0	26.1	105	0.741	28.3	J	
Dibenz(a,h)anthracene	0.016	0.0099	0.02480	0	63.0	25.7	109	5.62	28.8		
Benzo(g,h,i)perylene	0.015	0.0099	0.02480	0	62.0	20.3	111	5.70	28.7		
Indeno(1,2,3-cd)pyrene	0.029	0.0099	0.04962	0	58.0	28.7	103	6.05	29.3		
Surr: Benzo(e)pyrene	0.25		0.4960		50.6	27.4	110	0	20		

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	MB-28363	SampType:	MBLK	TestCode: EPA Method 6010B: Soil Metals							
Client ID:	PBS	Batch ID:	28363	RunNo: 38332							
Prep Date:	10/30/2016	Analysis Date:	10/31/2016	SeqNo: 1196518 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Antimony	ND	2.5									
Arsenic	ND	2.5									
Chromium	ND	0.30									
Iron	0.91	2.5									J
Lead	ND	0.25									
Manganese	ND	0.10									

Sample ID	LCS-28363	SampType:	LCS	TestCode: EPA Method 6010B: Soil Metals							
Client ID:	LCSS	Batch ID:	28363	RunNo: 38332							
Prep Date:	10/30/2016	Analysis Date:	10/31/2016	SeqNo: 1196519 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Antimony	24	2.5	25.00	0	94.7	80	120				
Arsenic	25	2.5	25.00	0	99.5	80	120				
Chromium	24	0.30	25.00	0	97.7	80	120				
Iron	26	2.5	25.00	0	104	80	120				
Lead	24	0.25	25.00	0	96.7	80	120				
Manganese	25	0.10	25.00	0	98.9	80	120				

Sample ID	MB-28364	SampType:	MBLK	TestCode: EPA Method 6010B: Soil Metals							
Client ID:	PBS	Batch ID:	28364	RunNo: 38386							
Prep Date:	10/30/2016	Analysis Date:	11/2/2016	SeqNo: 1198612 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Antimony	ND	2.5									
Arsenic	ND	2.5									
Chromium	0.28	0.30									J
Iron	2.1	2.5									J
Lead	ND	0.25									
Manganese	0.079	0.10									J

Sample ID	LCS-28364	SampType:	LCS	TestCode: EPA Method 6010B: Soil Metals							
Client ID:	LCSS	Batch ID:	28364	RunNo: 38386							
Prep Date:	10/30/2016	Analysis Date:	11/2/2016	SeqNo: 1198613 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Antimony	24	2.5	25.00	0	95.2	80	120				
Arsenic	24	2.5	25.00	0	94.3	80	120				
Chromium	24	0.30	25.00	0	95.0	80	120				
Iron	26	2.5	25.00	0	103	80	120				

Qualifiers:											
* Value exceeds Maximum Contaminant Level.											B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix											E Value above quantitation range
H Holding times for preparation or analysis exceeded											J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit											P Sample pH Not In Range
R RPD outside accepted recovery limits											RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix											W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	LCS-28364	SampType:	LCS	TestCode: EPA Method 6010B: Soil Metals							
Client ID:	LCSS	Batch ID:	28364	RunNo: 38386							
Prep Date:	10/30/2016	Analysis Date:	11/2/2016	SeqNo: 1198613 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Lead	23	0.25	25.00	0	91.3	80	120				
Manganese	24	0.10	25.00	0	95.0	80	120				
Sample ID	MB-28363	SampType:	MBLK	TestCode: EPA Method 6010B: Soil Metals							
Client ID:	PBS	Batch ID:	28363	RunNo: 38869							
Prep Date:	10/30/2016	Analysis Date:	10/31/2016	SeqNo: 1214605 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Thallium	ND	2.5									
Sample ID	LCS-28363	SampType:	LCS	TestCode: EPA Method 6010B: Soil Metals							
Client ID:	LCSS	Batch ID:	28363	RunNo: 38869							
Prep Date:	10/30/2016	Analysis Date:	10/31/2016	SeqNo: 1214606 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Thallium	24	2.5	25.00	0	95.9	80	120				
Sample ID	MB-28364	SampType:	MBLK	TestCode: EPA Method 6010B: Soil Metals							
Client ID:	PBS	Batch ID:	28364	RunNo: 38869							
Prep Date:	10/30/2016	Analysis Date:	11/2/2016	SeqNo: 1214958 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Thallium	ND	2.5									
Sample ID	LCS-28364	SampType:	LCS	TestCode: EPA Method 6010B: Soil Metals							
Client ID:	LCSS	Batch ID:	28364	RunNo: 38869							
Prep Date:	10/30/2016	Analysis Date:	11/2/2016	SeqNo: 1214959 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Thallium	23	2.5	25.00	0	92.5	80	120				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	rb	SampType:	MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID:	PBS	Batch ID:	GS38351	RunNo: 38351						
Prep Date:		Analysis Date:	10/31/2016	SeqNo: 1197228 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	500		500.0		99.8	70	130			
Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID:	LCSS	Batch ID:	GS38351	RunNo: 38351						
Prep Date:		Analysis Date:	10/31/2016	SeqNo: 1197229 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	62.9	123			
Surr: BFB	520		500.0		104	70	130			
Sample ID	1610e23-002ams	SampType:	MS	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID:	SB-2 (8.5-10)	Batch ID:	GS38351	RunNo: 38351						
Prep Date:		Analysis Date:	10/31/2016	SeqNo: 1197232 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	3.8	19.17	0	105	52.3	132			
Surr: BFB	390		383.4		102	70	130			
Sample ID	1610e23-002amsd	SampType:	MSD	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID:	SB-2 (8.5-10)	Batch ID:	GS38351	RunNo: 38351						
Prep Date:		Analysis Date:	10/31/2016	SeqNo: 1197233 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	3.8	19.17	0	103	52.3	132	2.27	20	
Surr: BFB	380		383.4		99.3	70	130	0	0	
Sample ID	rb1	SampType:	MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID:	PBS	Batch ID:	GT38351	RunNo: 38351						
Prep Date:		Analysis Date:	11/1/2016	SeqNo: 1197266 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	510		500.0		101	70	130			
Sample ID	2.5UG GRO LCS 2	SampType:	LCS	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID:	LCSS	Batch ID:	GT38351	RunNo: 38351						
Prep Date:		Analysis Date:	10/31/2016	SeqNo: 1197269 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.
Project: COA Railyards

Sample ID	2.5UG GRO LCS 2	SampType:	LCS	TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID:	LCSS	Batch ID:	GT38351	RunNo: 38351							
Prep Date:		Analysis Date:	10/31/2016	SeqNo: 1197269 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	62.9	123				
Surr: BFB	510		500.0		102	70	130				
Sample ID	1610e23-022ams2	SampType:	MS	TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID:	SB-22 (3-6)	Batch ID:	GT38351	RunNo: 38351							
Prep Date:		Analysis Date:	11/1/2016	SeqNo: 1197272 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	18	3.6	17.96	0	101	52.3	132				
Surr: BFB	360		359.2		101	70	130				
Sample ID	1610e23-022amsd2	SampType:	MSD	TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID:	SB-22 (3-6)	Batch ID:	GT38351	RunNo: 38351							
Prep Date:		Analysis Date:	11/1/2016	SeqNo: 1197273 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	17	3.6	17.96	0	94.9	52.3	132	5.89	20		
Surr: BFB	360		359.2		99.1	70	130	0	0		
Sample ID	rb	SampType:	MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID:	PBS	Batch ID:	G38379	RunNo: 38379							
Prep Date:		Analysis Date:	11/1/2016	SeqNo: 1198269 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	500		500.0		99.9	70	130				
Sample ID	2.5ug gro lcs	SampType:	LCS	TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID:	LCSS	Batch ID:	G38379	RunNo: 38379							
Prep Date:		Analysis Date:	11/1/2016	SeqNo: 1198270 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	62.9	123				
Surr: BFB	530		500.0		106	70	130				
Sample ID	1610e23-026ams	SampType:	MS	TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID:	SB-26 (10-15)	Batch ID:	G38379	RunNo: 38379							
Prep Date:		Analysis Date:	11/1/2016	SeqNo: 1198274 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610E23

22-Nov-16

Client: Intera, Inc.

Project: COA Railyards

Sample ID	1610e23-026ams	SampType:	MS	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID:	SB-26 (10-15)	Batch ID:	G38379	RunNo: 38379						
Prep Date:		Analysis Date:	11/1/2016	SeqNo: 1198274 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	2.9	14.26	0	102	52.3	132			
Surr: BFB	290		285.2		102	70	130			

Sample ID	1610e23-026amsd	SampType:	MSD	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID:	SB-26 (10-15)	Batch ID:	G38379	RunNo: 38379						
Prep Date:		Analysis Date:	11/1/2016	SeqNo: 1198275 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	14	2.9	14.26	0	99.4	52.3	132	2.42	20	
Surr: BFB	290		285.2		101	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: INT

Work Order Number: 1610E23

RcptNo: 1

Received by/date: AG 10/28/16

Logged By: Ashley Gallegos AG 10/28/2016 10:11:00 AM

Completed By: Ashley Gallegos AG 10/28/2016 12:26:24 PM

Reviewed By: AG 10/28/16

Chain of Custody

1. Custody seals intact on sample bottles? Yes No Not Present
2. Is Chain of Custody complete? Yes No Not Present
3. How was the sample delivered? Client

Log In

4. Was an attempt made to cool the samples? Yes No NA
 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 6. Sample(s) in proper container(s)? Yes No
 7. Sufficient sample volume for indicated test(s)? Yes No
 8. Are samples (except VOA and ONG) properly preserved? Yes No
 9. Was preservative added to bottles? Yes No NA
 10. VOA vials have zero headspace? Yes No No VOA Vials
 11. Were any sample containers received broken? Yes No
 12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
 13. Are matrices correctly identified on Chain of Custody? Yes No
 14. Is it clear what analyses were requested? Yes No
 15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No
- # of preserved bottles checked for pH:
<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	Date
By Whom:	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	
Client Instructions:	

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Not Present			

Chain-of-Custody Record

Client:	INTERA	Turn-Around Time:	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush	Project Name:	
Sampling Address:	1000 Upton Blvd NE Albuquerque, NM 87109	Tel. 505-345-3975	Fax 505-345-4107
Site #:	505.246.1600	Air Bubbles (Y or N)	
Email or Fax#:	jtracy@intera.com	8270 (Semi-VOA)	
VOC Package:	emarcillo@intera.com	8260B (VOA)	
Standard	<input type="checkbox"/> Level 4 (Full Validation)	8081 Pesticides / 8082 PCB's	
Creditation	<input type="checkbox"/> Other	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
NELAP	<input type="checkbox"/>	RCRA 8 Metals	
EDD (Type)		Metals via 8015*	
Date	Time	Matrix	Sample Request ID
2/14/16	1510	S	SB-1 (9-10)
2/14/16	1535	S	SB-2 (8.5-10)
2/14/16	1600	S	SB-3 (8.5-10)
2/14/16	1630	S	SB-4 (10-12)
2/14/16	0840	S	SB-5 (4-10)
2/14/16	1157	S	SB-6 (5-10)
2/14/16	1220	S	SB-7 (5-10)
2/14/16	1356	S	SB-8 (5-10)
2/14/16	1413	S	SB-9 (5-10)
2/14/16	1755	S	SB-10 (5-10)
2/14/16	0802	S	SB-11 (0-5)
2/14/16	0852	S	SB-12 (0-5)
On Ice:	<input checked="" type="checkbox"/> Yes	TPH (Method 418.1)	
		TPH 8015B (GRO / DRO / MRO)	
		BTEX + MTBE + TPH (Gas only)	
		EDB (Method 504.1)	
		PAH's (8310 or 8270 SIMS)	
		TPH (Method 418.1)	
		RCRA 8 Metals	
		ANALYSIS REQUEST	
		8081 Pesticides / 8082 PCB's	
		8260B (VOA)	
		8270 (Semi-VOA)	
		8081 Pesticides / 8082 PCB's	
		RCRA 8 Metals	
		ANALYSIS REQUEST	
		8260B (VOA)	
		8270 (Semi-VOA)	
		Metals via 8015*	
		AIR BUBBLES (Y OR N)	

Received by: John L Date: 2/28/16 Time: 10:11
 Received by: John L Date: 2/28/16 Time: 10:11

Remarks:
 *Metals = Antimony, arsenic, chromium, iron, lead, manganese, and trallium

Chain-of-Custody Record

Turn-Around Time:						
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush					
Project Name: CCA Railyards						
Billing Address: 10000 Uptown Blvd STE Suite 220 Any NN Phone #: SDS 244-1600 VOC Package: emailto:jtracy@intera.com Standard Accreditation NELAP <input type="checkbox"/> Other _____						
Project #: COA1B.M005.0C55 NTP17 Project Manager: Joe Tracy						
Sampler: LP/MS On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
EDD (Type): Sample Temperature: 30						
Date	Time	Matrix	Sample Request ID			
		Container Type and #	Preservative Type			
		HEAL No				
4/1/16	0930	S	SB-13 (10-15)	2-4 oz jars 1 Meth Kit	Methanol ice	-013
4/1/16	1003	S	SB-14 (5-10)	2-4 oz jars 1 Meth Kit		-014
4/1/16	1035	S	SB-15 (3-4)	2-4 oz jars 1 Meth Kit		-015
4/1/16	1106	S	SB-16 (5-10)	2-4 oz jars 1 Meth Kit		-016
4/1/16	1140	S	SB-17 (3-4)	2-4 oz jars 1 Meth Kit		-017
4/1/16	1202	S	SB-18 (3-4)	2-4 oz jars 1 Meth Kit		-018
4/1/16	1217	S	SB-19 (5-10)	2-4 oz jars 1 Meth Kit		-019
4/1/16	1232	S	SB-20 (3-4)	2-4 oz jars 1 Meth Kit		-020
4/1/16	0815	S	SB-21 (0-5)	2-4 oz jars 1 Meth Kit		-021
4/1/16	0835	S	SB-22 (3-4)	2-4 oz jars 1 Meth Kit		-022
4/1/16	0858	S	SB-23 (0-5)	2-4 oz jars 1 Meth Kit		-023
4/1/16	0923	S	SB-24 (0-5)	2-4 oz jars 1 Meth Kit		-024
ate:	Time:	Relinquished by: <i>John</i>		Date	Time	Remarks:
28/16	1011			10/28/16	1011	* See page 1 for info
ate:	Time:	Received by: <i>John</i>		Date	Time	
ate:	Time:	Relinquished by: <i>John</i>		Date	Time	

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Air Bubbles (Y or N)

Metals via 8015*	X						
8270 (Semi-VOA)		X					
8260B (VOA)	X		X				
8081 Pesticides / 8082 PCB's		X	X				
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)		X	X				
RCRA 8 Metals		X	X				
PAH's (8310 or 8270 SIMS)	X		X				
EDB (Method 504.1)		X	X				
TPH (Method 418.1)		X	X				
TPH 8015B (GRO / DRO / MRO)	X		X				
BTEx + MTBE + TPH (Gas only)		X	X				
BTEx + MTBE + TMB's (8021)		X	X				

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

Appendix C
Laboratory Analytical Report and Maps for Soil Vapor



BEACON ENVIRONMENTAL
SERVICES, INC.

The Leaders in Soil Gas Surveys
and Vapor Intrusion Monitoring

Client: Vista GeoScience
130 Capital Drive, Suite C
Golden, CO 80401
Attn: Mr. Mike Martin

Soil-Gas Samples -- Analytical Report

Date: December 12, 2016
Beacon Project No. 3588 Rev1

Project Reference:	Albuquerque Railyards, Albuquerque, NM
Sampling Date:	October 25 through November 3, 2016
Samples Received:	November 4 and 8, 2016
Analyses Completed:	November 10, 2016

Results for the following samples are included in this data package:

Sample ID	Matrix	Analysis
SV-03 A (HO234823)	Air	TO-17
SV-04 A (GO119804)	Air	TO-17
SV-06 A (HO234809)	Air	TO-17
SV-07 A (HO199678)	Air	TO-17
SV-08 A (1049238)	Air	TO-17
SV-09 A (GO177458)	Air	TO-17
SV-10 A (GO177407)	Air	TO-17
SV-11 A (GO164559)	Air	TO-17
SV-12 A (HO200253)	Air	TO-17
SV-14 A (GO115947)	Air	TO-17
SV-16 A (HO199673)	Air	TO-17
SV-17 A (HO232690)	Air	TO-17
SV-21 A (HO199664)	Air	TO-17
SV-23 A (HO200288)	Air	TO-17
SV-27 A (1049249)	Air	TO-17
SV-28 A (1100863)	Air	TO-17
SV-29 A (HO200227)	Air	TO-17
SV-30 A (GO167057)	Air	TO-17
SV-31 A (HO200236)	Air	TO-17
SV-32 A (GO164954)	Air	TO-17
SV-03-01 (HO234875)	Soil Gas	TO-17
SV-03-02 (GO178581)	Soil Gas	TO-17
SV-03-03 (HO234580)	Soil Gas	TO-17
SV-05-01 (1100817)	Soil Gas	TO-17
SV-05-02 (1049459)	Soil Gas	TO-17
SV-05-03 (1049520)	Soil Gas	TO-17
SV-05-04 (HO231898)	Soil Gas	TO-17
SV-05-05 (GO177980)	Soil Gas	TO-17
SV-05-06 (1101163)	Soil Gas	TO-17
SV-07-01 (HO238242)	Soil Gas	TO-17
SV-07-02 (HO234516)	Soil Gas	TO-17
SV-07-03 (GO115955)	Soil Gas	TO-17

Sample ID	Matrix	Analysis
SV-07-04 (GO115976)	Soil Gas	TO-17
SV-08-01 (GO164999)	Soil Gas	TO-17
SV-08-02 (1101399)	Soil Gas	TO-17
SV-08-03 (HO199622)	Soil Gas	TO-17
SV-08-04 (HO199658)	Soil Gas	TO-17
SV-08-05 (GO166889)	Soil Gas	TO-17
SV-08-06 (HO232630)	Soil Gas	TO-17
SV-08-07 (GO164568)	Soil Gas	TO-17
SV-08-08 (HO234589)	Soil Gas	TO-17
SV-08-09 (HO234844)	Soil Gas	TO-17
SV-08-10 (GO177969)	Soil Gas	TO-17

Sample Collection

Beacon Environmental provided Vista GeoScience with thermally conditioned multi-bed stainless steel tubes to target a custom list of analytes. Soil gas was drawn through each tube for five (5) minutes with a flowrate of 200 mL/min and the resulting mass of target analytes captured on each sampler was reported as a concentration.

U. S. EPA Method TO-17

All samples were analyzed for a custom target compound list following U.S. EPA Method TO-17. The analytical results are reported in **Table 1**, with results reported in $\mu\text{g}/\text{m}^3$ and ppbv based on the measured mass and volume of gas sampled (one liter).

Reporting Limits (RLs) for EPA Method TO-17

The lowest point in the calibration curve and the limit of quantitation (LOQ) is 10 nanograms (ng), which is the RL; however, when reporting concentration data in Table 1, the values are provided in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$) and ppbv. The RLs represent a baseline above which results exceed laboratory-determined limits of precision and accuracy. For 1,1,2,2-Tetrachloroethane; 1,2,3-Trichloropropane; and Naphthalene, estimated measurements below the LOQ but above the detection limit (DL) of 2.5 ng are reported to meet project reporting limit requirements. Furthermore, per Vista GeoScience's request, samples were reviewed for measurements of 1,1,2-Trichloroethane that are above 2.0 ng to meet project reporting requirements. Non-detects of this compound above 2.0 ng are reported with high confidence. All reported measurements below the LOQ are estimates and are qualified with a J flag.

Calibration Verification

The initial laboratory control sample (LCS) also serves as the calibration verification and values for the analytes were all within $\pm 30\%$ of the true values as defined by the initial five-point calibration and met the requirements specified in Beacon Environmental's Quality Manual. Both the LCS and the laboratory control duplicate (LCSD) are spiked at 50 ng and percentage of recovery is calculated and reported. Acceptance criteria for surrogate and analyte recoveries are 70 to 130 percent; all surrogates and analytes were within the acceptance criteria.

Internal Standards and Surrogates

Internal standards and surrogates are spiked on each field and QC sample at 100 ng and 50 ng, respectively, and the percentage of recovery is calculated. Acceptance criteria for internal standards are 60 to 140 percent and surrogate recoveries are 70 to 130 percent; all internal standards and surrogates were within the acceptance criteria.

Blank Contamination

No targeted compounds above the limit of detection (LOD) for each compound were observed in the Laboratory Method Blanks (LB_161108a and LB_161109a). For comparison to field sample results, one liter was used as the volume to calculate the LOQs for the blanks.

Discussion

Forty (40) sorbent tubes were received on November 4, 2016, and forty-six (46) sorbent tubes were received on November 8, 2016. All samples were collected at each location following U.S. EPA Method TO-17; at the request of the client, only one (1) sample from each location was reported. Sampling start and stop times, as well as flowrates, can be found in the Chain of Custody (**Attachment 1**).

Demonstrated Linear Range of the GC-MS Instrumentation (EPA Method TO-17)

An initial five-point calibration is performed on the instrumentation from 10 to 200 ng per analyte.

Attachments:

- 1- Chain of Custody

ALL DATA MEET REQUIREMENTS AS SPECIFIED IN THE BEACON ENVIRONMENTAL SERVICES, INC. QUALITY MANUAL AND THE RESULTS RELATE ONLY TO THE SAMPLES REPORTED. BEACON ENVIRONMENTAL SERVICES IS ACCREDITED TO ISO/IEC 17025:2005, AND THE WORK PERFORMED WAS IN ACCORDANCE WITH ISO/IEC 17025 REQUIREMENTS, WITH THE EXCEPTION WITH THE EXCEPTION THAT SAMPLES WERE ANALYZED WITHIN A 24-HOUR TUNE WINDOW AND 2-METHYLNAPHTHALENE IS NOT INCLUDED IN BEACON'S SCOPE OF ACCREDITATION. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY. RELEASE OF THE DATA HAS BEEN AUTHORIZED BY THE LABORATORY DIRECTOR OR HIS SIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURES:



Steven C. Thornley
Laboratory Director



Patti J. Riggs
Quality Manager

Date: December 12, 2016

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110802
Beacon Sample ID: LCS_161108a
Client ID/Sampling Location:
Date Time Collected:
Matrix:
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received:
Analysis Date: 11/8/2016
Analysis Time: 10:30:00 AM
Beacon Job Number:

	Results	Units	Completed	Limits
COMPOUNDS				
Vinyl Chloride	82%	%REC	11/8/16 10:30	80-120
1,1-Dichloroethene	100%	%REC	11/8/16 10:30	80-120
1,1,2-Trichlorotrifluoroethane (Fr.113)	86%	%REC	11/8/16 10:30	80-120
trans-1,2-Dichloroethene	103%	%REC	11/8/16 10:30	80-120
Methyl-t-butyl ether	94%	%REC	11/8/16 10:30	80-120
1,1-Dichloroethane	100%	%REC	11/8/16 10:30	80-120
cis-1,2-Dichloroethene	102%	%REC	11/8/16 10:30	80-120
Chloroform	101%	%REC	11/8/16 10:30	80-120
1,2-Dichloroethane	98%	%REC	11/8/16 10:30	80-120
1,1,1-Trichloroethane	96%	%REC	11/8/16 10:30	80-120
Carbon Tetrachloride	96%	%REC	11/8/16 10:30	80-120
Benzene	100%	%REC	11/8/16 10:30	80-120
Trichloroethene	108%	%REC	11/8/16 10:30	80-120
1,4-Dioxane	110%	%REC	11/8/16 10:30	80-120
1,1,2-Trichloroethane	110%	%REC	11/8/16 10:30	80-120
Toluene	118%	%REC	11/8/16 10:30	80-120
1,2-Dibromoethane (EDB)	110%	%REC	11/8/16 10:30	80-120
Tetrachloroethene	94%	%REC	11/8/16 10:30	80-120
1,1,1,2-Tetrachloroethane	103%	%REC	11/8/16 10:30	80-120
Chlorobenzene	102%	%REC	11/8/16 10:30	80-120
Ethylbenzene	106%	%REC	11/8/16 10:30	80-120
p & m-Xylene	108%	%REC	11/8/16 10:30	80-120
1,1,2,2-Tetrachloroethane	99%	%REC	11/8/16 10:30	80-120
o-Xylene	101%	%REC	11/8/16 10:30	80-120
1,2,3-Trichloropropane	97%	%REC	11/8/16 10:30	80-120
Isopropylbenzene	101%	%REC	11/8/16 10:30	80-120
1,3,5-Trimethylbenzene	110%	%REC	11/8/16 10:30	80-120
1,2,4-Trimethylbenzene	102%	%REC	11/8/16 10:30	80-120
1,3-Dichlorobenzene	103%	%REC	11/8/16 10:30	80-120
1,4-Dichlorobenzene	103%	%REC	11/8/16 10:30	80-120
1,2-Dichlorobenzene	103%	%REC	11/8/16 10:30	80-120
1,2,4-Trichlorobenzene	111%	%REC	11/8/16 10:30	80-120
Naphthalene	107%	%REC	11/8/16 10:30	80-120
1,2,3-Trichlorobenzene	104%	%REC	11/8/16 10:30	80-120
2-Methylnaphthalene	102%	%REC	11/8/16 10:30	80-120
SURROGATES				
1,2-DCA-d4	104	70-130	11/8/16 10:30	A16110802
Toluene-d8	105	70-130	11/8/16 10:30	A16110802
Bromofluorobenzene	107	70-130	11/8/16 10:30	A16110802

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110803
Beacon Sample ID: LB_161108a
Client ID/Sampling Location:
Date Time Collected:
Matrix:
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received:
Analysis Date: 11/8/2016
Analysis Time: 10:53:00 AM
Beacon Job Number:

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 10:53
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 10:53
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 10:53
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 10:53
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 10:53
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 10:53
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 10:53
Chloroform	U	10.00	U	2.05	11/8/16 10:53
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 10:53
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 10:53
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 10:53
Benzene	U	10.00	U	3.13	11/8/16 10:53
Trichloroethene	U	10.00	U	1.86	11/8/16 10:53
1,4-Dioxane	U	10.00	U	2.77	11/8/16 10:53
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 10:53
Toluene	U	10.00	U	2.65	11/8/16 10:53
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 10:53
Tetrachloroethene	U	10.00	U	1.47	11/8/16 10:53
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 10:53
Chlorobenzene	U	10.00	U	2.17	11/8/16 10:53
Ethylbenzene	U	10.00	U	2.30	11/8/16 10:53
p & m-Xylene	U	10.00	U	2.30	11/8/16 10:53
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 10:53
o-Xylene	U	10.00	U	2.30	11/8/16 10:53
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 10:53
Isopropylbenzene	U	10.00	U	2.03	11/8/16 10:53
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 10:53
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 10:53
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 10:53
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 10:53
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 10:53
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 10:53
Naphthalene	U	10.00	U	1.91	11/8/16 10:53
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 10:53
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 10:53
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	102	70-130	A16110803	11/8/16 10:53	
Toluene-d8	107	70-130	A16110803	11/8/16 10:53	
Bromofluorobenzene	102	70-130	A16110803	11/8/16 10:53	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110804
Beacon Sample ID: LCSD_161108a
Client ID/Sampling Location:
Date Time Collected:
Matrix:
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received:
Analysis Date: 11/8/2016
Analysis Time: 11:16:00 AM
Beacon Job Number:

	Results	Units	Completed	Limits
COMPOUNDS				
Vinyl Chloride	80%	%REC	11/8/16 11:16	70-130
1,1-Dichloroethene	87%	%REC	11/8/16 11:16	70-130
1,1,2-Trichlorotrifluoroethane (Fr.113)	80%	%REC	11/8/16 11:16	70-130
trans-1,2-Dichloroethene	101%	%REC	11/8/16 11:16	70-130
Methyl-t-butyl ether	84%	%REC	11/8/16 11:16	70-130
1,1-Dichloroethane	104%	%REC	11/8/16 11:16	70-130
cis-1,2-Dichloroethene	104%	%REC	11/8/16 11:16	70-130
Chloroform	103%	%REC	11/8/16 11:16	70-130
1,2-Dichloroethane	98%	%REC	11/8/16 11:16	70-130
1,1,1-Trichloroethane	88%	%REC	11/8/16 11:16	70-130
Carbon Tetrachloride	88%	%REC	11/8/16 11:16	70-130
Benzene	100%	%REC	11/8/16 11:16	70-130
Trichloroethene	106%	%REC	11/8/16 11:16	70-130
1,4-Dioxane	108%	%REC	11/8/16 11:16	70-130
1,1,2-Trichloroethane	105%	%REC	11/8/16 11:16	70-130
Toluene	111%	%REC	11/8/16 11:16	70-130
1,2-Dibromoethane (EDB)	112%	%REC	11/8/16 11:16	70-130
Tetrachloroethene	95%	%REC	11/8/16 11:16	70-130
1,1,1,2-Tetrachloroethane	99%	%REC	11/8/16 11:16	70-130
Chlorobenzene	101%	%REC	11/8/16 11:16	70-130
Ethylbenzene	99%	%REC	11/8/16 11:16	70-130
p & m-Xylene	99%	%REC	11/8/16 11:16	70-130
1,1,2,2-Tetrachloroethane	99%	%REC	11/8/16 11:16	70-130
o-Xylene	96%	%REC	11/8/16 11:16	70-130
1,2,3-Trichloropropane	95%	%REC	11/8/16 11:16	70-130
Isopropylbenzene	98%	%REC	11/8/16 11:16	70-130
1,3,5-Trimethylbenzene	108%	%REC	11/8/16 11:16	70-130
1,2,4-Trimethylbenzene	100%	%REC	11/8/16 11:16	70-130
1,3-Dichlorobenzene	101%	%REC	11/8/16 11:16	70-130
1,4-Dichlorobenzene	103%	%REC	11/8/16 11:16	70-130
1,2-Dichlorobenzene	102%	%REC	11/8/16 11:16	70-130
1,2,4-Trichlorobenzene	111%	%REC	11/8/16 11:16	70-130
Naphthalene	108%	%REC	11/8/16 11:16	70-130
1,2,3-Trichlorobenzene	104%	%REC	11/8/16 11:16	70-130
2-Methylnaphthalene	96%	%REC	11/8/16 11:16	70-130
SURROGATES				
	Percent Recovery	Limits	Completed	Lab File ID
1,2-DCA-d4	99	70-130	11/8/16 11:16	A16110804
Toluene-d8	108	70-130	11/8/16 11:16	A16110804
Bromofluorobenzene	102	70-130	11/8/16 11:16	A16110804

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110806
Beacon Sample ID: HO234823
Client ID/Sampling Location: SV-03A
Date Time Collected: 10/26/16 3:01 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 12:26:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 12:26
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 12:26
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 12:26
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 12:26
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 12:26
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 12:26
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 12:26
Chloroform	U	10.00	U	2.05	11/8/16 12:26
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 12:26
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 12:26
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 12:26
Benzene	U	10.00	U	3.13	11/8/16 12:26
Trichloroethene	U	10.00	U	1.86	11/8/16 12:26
1,4-Dioxane	U	10.00	U	2.77	11/8/16 12:26
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 12:26
Toluene	44.57	10.00	11.83	2.65	11/8/16 12:26
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 12:26
Tetrachloroethene	U	10.00	U	1.47	11/8/16 12:26
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 12:26
Chlorobenzene	U	10.00	U	2.17	11/8/16 12:26
Ethylbenzene	U	10.00	U	2.30	11/8/16 12:26
p & m-Xylene	27.43	10.00	6.32	2.30	11/8/16 12:26
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 12:26
o-Xylene	U	10.00	U	2.30	11/8/16 12:26
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 12:26
Isopropylbenzene	U	10.00	U	2.03	11/8/16 12:26
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 12:26
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 12:26
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 12:26
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 12:26
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 12:26
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 12:26
Naphthalene	19.56	10.00	3.73	1.91	11/8/16 12:26
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 12:26
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 12:26
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	96	70-130	A16110806	11/8/16 12:26	
Toluene-d8	103	70-130	A16110806	11/8/16 12:26	
Bromofluorobenzene	108	70-130	A16110806	11/8/16 12:26	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110808
Beacon Sample ID: GO119804
Client ID/Sampling Location: SV-04A
Date Time Collected: 10/26/16 4:10 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 1:13:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 13:13
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 13:13
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 13:13
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 13:13
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 13:13
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 13:13
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 13:13
Chloroform	U	10.00	U	2.05	11/8/16 13:13
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 13:13
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 13:13
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 13:13
Benzene	U	10.00	U	3.13	11/8/16 13:13
Trichloroethene	U	10.00	U	1.86	11/8/16 13:13
1,4-Dioxane	U	10.00	U	2.77	11/8/16 13:13
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 13:13
Toluene	13.25	10.00	3.52	2.65	11/8/16 13:13
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 13:13
Tetrachloroethene	U	10.00	U	1.47	11/8/16 13:13
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 13:13
Chlorobenzene	U	10.00	U	2.17	11/8/16 13:13
Ethylbenzene	U	10.00	U	2.30	11/8/16 13:13
p & m-Xylene	U	10.00	U	2.30	11/8/16 13:13
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 13:13
o-Xylene	U	10.00	U	2.30	11/8/16 13:13
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 13:13
Isopropylbenzene	U	10.00	U	2.03	11/8/16 13:13
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 13:13
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 13:13
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:13
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:13
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:13
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 13:13
Naphthalene	U	10.00	U	1.91	11/8/16 13:13
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 13:13
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 13:13
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	99	70-130	A16110808	11/8/16 13:13	
Toluene-d8	106	70-130	A16110808	11/8/16 13:13	
Bromofluorobenzene	105	70-130	A16110808	11/8/16 13:13	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110810
Beacon Sample ID: HO234809
Client ID/Sampling Location: SV-06A
Date Time Collected: 10/25/16 11:33 AM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 1:59:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 13:59
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 13:59
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 13:59
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 13:59
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 13:59
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 13:59
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 13:59
Chloroform	U	10.00	U	2.05	11/8/16 13:59
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 13:59
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 13:59
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 13:59
Benzene	U	10.00	U	3.13	11/8/16 13:59
Trichloroethene	U	10.00	U	1.86	11/8/16 13:59
1,4-Dioxane	U	10.00	U	2.77	11/8/16 13:59
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 13:59
Toluene	U	10.00	U	2.65	11/8/16 13:59
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 13:59
Tetrachloroethene	U	10.00	U	1.47	11/8/16 13:59
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 13:59
Chlorobenzene	U	10.00	U	2.17	11/8/16 13:59
Ethylbenzene	U	10.00	U	2.30	11/8/16 13:59
p & m-Xylene	U	10.00	U	2.30	11/8/16 13:59
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 13:59
o-Xylene	U	10.00	U	2.30	11/8/16 13:59
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 13:59
Isopropylbenzene	U	10.00	U	2.03	11/8/16 13:59
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 13:59
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 13:59
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:59
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:59
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:59
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 13:59
Naphthalene	U	10.00	U	1.91	11/8/16 13:59
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 13:59
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 13:59
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	98	70-130	A16110810	11/8/16 13:59	
Toluene-d8	107	70-130	A16110810	11/8/16 13:59	
Bromofluorobenzene	104	70-130	A16110810	11/8/16 13:59	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110812
Beacon Sample ID: HO199678
Client ID/Sampling Location: SV-07A
Date Time Collected: 10/25/16 1:40 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 2:45:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 14:45
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 14:45
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 14:45
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 14:45
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 14:45
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 14:45
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 14:45
Chloroform	U	10.00	U	2.05	11/8/16 14:45
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 14:45
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 14:45
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 14:45
Benzene	U	10.00	U	3.13	11/8/16 14:45
Trichloroethene	U	10.00	U	1.86	11/8/16 14:45
1,4-Dioxane	U	10.00	U	2.77	11/8/16 14:45
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 14:45
Toluene	U	10.00	U	2.65	11/8/16 14:45
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 14:45
Tetrachloroethene	U	10.00	U	1.47	11/8/16 14:45
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 14:45
Chlorobenzene	U	10.00	U	2.17	11/8/16 14:45
Ethylbenzene	U	10.00	U	2.30	11/8/16 14:45
p & m-Xylene	U	10.00	U	2.30	11/8/16 14:45
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 14:45
o-Xylene	U	10.00	U	2.30	11/8/16 14:45
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 14:45
Isopropylbenzene	U	10.00	U	2.03	11/8/16 14:45
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 14:45
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 14:45
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 14:45
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 14:45
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 14:45
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 14:45
Naphthalene	U	10.00	U	1.91	11/8/16 14:45
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 14:45
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 14:45
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	96	70-130	A16110812	11/8/16 14:45	
Toluene-d8	103	70-130	A16110812	11/8/16 14:45	
Bromofluorobenzene	104	70-130	A16110812	11/8/16 14:45	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110814
Beacon Sample ID: 1049238
Client ID/Sampling Location: SV-08A
Date Time Collected: 10/25/16 3:42 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 3:31:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 15:31
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 15:31
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 15:31
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 15:31
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 15:31
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 15:31
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 15:31
Chloroform	U	10.00	U	2.05	11/8/16 15:31
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 15:31
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 15:31
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 15:31
Benzene	U	10.00	U	3.13	11/8/16 15:31
Trichloroethene	U	10.00	U	1.86	11/8/16 15:31
1,4-Dioxane	U	10.00	U	2.77	11/8/16 15:31
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 15:31
Toluene	U	10.00	U	2.65	11/8/16 15:31
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 15:31
Tetrachloroethene	U	10.00	U	1.47	11/8/16 15:31
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 15:31
Chlorobenzene	U	10.00	U	2.17	11/8/16 15:31
Ethylbenzene	U	10.00	U	2.30	11/8/16 15:31
p & m-Xylene	U	10.00	U	2.30	11/8/16 15:31
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 15:31
o-Xylene	U	10.00	U	2.30	11/8/16 15:31
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 15:31
Isopropylbenzene	U	10.00	U	2.03	11/8/16 15:31
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 15:31
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 15:31
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 15:31
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 15:31
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 15:31
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 15:31
Naphthalene	U	10.00	U	1.91	11/8/16 15:31
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 15:31
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 15:31
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	97	70-130	A16110814	11/8/16 15:31	
Toluene-d8	107	70-130	A16110814	11/8/16 15:31	
Bromofluorobenzene	102	70-130	A16110814	11/8/16 15:31	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110816
Beacon Sample ID: GO177458
Client ID/Sampling Location: SV-09A
Date Time Collected: 10/25/16 5:23 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 4:18:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 16:18
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 16:18
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 16:18
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 16:18
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 16:18
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 16:18
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 16:18
Chloroform	U	10.00	U	2.05	11/8/16 16:18
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 16:18
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 16:18
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 16:18
Benzene	U	10.00	U	3.13	11/8/16 16:18
Trichloroethene	U	10.00	U	1.86	11/8/16 16:18
1,4-Dioxane	U	10.00	U	2.77	11/8/16 16:18
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 16:18
Toluene	U	10.00	U	2.65	11/8/16 16:18
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 16:18
Tetrachloroethene	U	10.00	U	1.47	11/8/16 16:18
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 16:18
Chlorobenzene	U	10.00	U	2.17	11/8/16 16:18
Ethylbenzene	U	10.00	U	2.30	11/8/16 16:18
p & m-Xylene	U	10.00	U	2.30	11/8/16 16:18
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 16:18
o-Xylene	U	10.00	U	2.30	11/8/16 16:18
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 16:18
Isopropylbenzene	U	10.00	U	2.03	11/8/16 16:18
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 16:18
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 16:18
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 16:18
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 16:18
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 16:18
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 16:18
Naphthalene	U	10.00	U	1.91	11/8/16 16:18
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 16:18
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 16:18
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	99	70-130	A16110816	11/8/16 16:18	
Toluene-d8	106	70-130	A16110816	11/8/16 16:18	
Bromofluorobenzene	107	70-130	A16110816	11/8/16 16:18	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110818
Beacon Sample ID: GO177407
Client ID/Sampling Location: SV-10A
Date Time Collected: 10/26/16 5:54 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 5:04:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 17:04
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 17:04
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 17:04
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 17:04
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 17:04
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 17:04
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 17:04
Chloroform	U	10.00	U	2.05	11/8/16 17:04
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 17:04
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 17:04
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 17:04
Benzene	U	10.00	U	3.13	11/8/16 17:04
Trichloroethene	U	10.00	U	1.86	11/8/16 17:04
1,4-Dioxane	U	10.00	U	2.77	11/8/16 17:04
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 17:04
Toluene	17.5	10.00	4.64	2.65	11/8/16 17:04
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 17:04
Tetrachloroethene	U	10.00	U	1.47	11/8/16 17:04
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 17:04
Chlorobenzene	U	10.00	U	2.17	11/8/16 17:04
Ethylbenzene	U	10.00	U	2.30	11/8/16 17:04
p & m-Xylene	U	10.00	U	2.30	11/8/16 17:04
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 17:04
o-Xylene	U	10.00	U	2.30	11/8/16 17:04
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 17:04
Isopropylbenzene	U	10.00	U	2.03	11/8/16 17:04
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 17:04
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 17:04
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:04
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:04
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:04
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 17:04
Naphthalene	U	10.00	U	1.91	11/8/16 17:04
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 17:04
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 17:04
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	96	70-130	A16110818	11/8/16 17:04	
Toluene-d8	106	70-130	A16110818	11/8/16 17:04	
Bromofluorobenzene	105	70-130	A16110818	11/8/16 17:04	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110820
Beacon Sample ID: GO164559
Client ID/Sampling Location: SV-11A
Date Time Collected: 10/26/16 5:21 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 5:51:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 17:51
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 17:51
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 17:51
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 17:51
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 17:51
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 17:51
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 17:51
Chloroform	U	10.00	U	2.05	11/8/16 17:51
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 17:51
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 17:51
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 17:51
Benzene	U	10.00	U	3.13	11/8/16 17:51
Trichloroethene	U	10.00	U	1.86	11/8/16 17:51
1,4-Dioxane	U	10.00	U	2.77	11/8/16 17:51
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 17:51
Toluene	17.44	10.00	4.63	2.65	11/8/16 17:51
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 17:51
Tetrachloroethene	U	10.00	U	1.47	11/8/16 17:51
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 17:51
Chlorobenzene	U	10.00	U	2.17	11/8/16 17:51
Ethylbenzene	U	10.00	U	2.30	11/8/16 17:51
p & m-Xylene	U	10.00	U	2.30	11/8/16 17:51
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 17:51
o-Xylene	U	10.00	U	2.30	11/8/16 17:51
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 17:51
Isopropylbenzene	U	10.00	U	2.03	11/8/16 17:51
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 17:51
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 17:51
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:51
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:51
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:51
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 17:51
Naphthalene	U	10.00	U	1.91	11/8/16 17:51
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 17:51
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 17:51
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	96	70-130	A16110820	11/8/16 17:51	
Toluene-d8	108	70-130	A16110820	11/8/16 17:51	
Bromofluorobenzene	107	70-130	A16110820	11/8/16 17:51	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110822
Beacon Sample ID: HO200253
Client ID/Sampling Location: SV-12A
Date Time Collected: 10/26/16 4:43 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 6:39:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 18:39
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 18:39
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 18:39
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 18:39
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 18:39
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 18:39
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 18:39
Chloroform	U	10.00	U	2.05	11/8/16 18:39
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 18:39
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 18:39
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 18:39
Benzene	U	10.00	U	3.13	11/8/16 18:39
Trichloroethene	U	10.00	U	1.86	11/8/16 18:39
1,4-Dioxane	U	10.00	U	2.77	11/8/16 18:39
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 18:39
Toluene	14.31	10.00	3.8	2.65	11/8/16 18:39
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 18:39
Tetrachloroethene	U	10.00	U	1.47	11/8/16 18:39
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 18:39
Chlorobenzene	U	10.00	U	2.17	11/8/16 18:39
Ethylbenzene	U	10.00	U	2.30	11/8/16 18:39
p & m-Xylene	U	10.00	U	2.30	11/8/16 18:39
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 18:39
o-Xylene	U	10.00	U	2.30	11/8/16 18:39
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 18:39
Isopropylbenzene	U	10.00	U	2.03	11/8/16 18:39
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 18:39
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 18:39
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 18:39
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 18:39
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 18:39
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 18:39
Naphthalene	U	10.00	U	1.91	11/8/16 18:39
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 18:39
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 18:39
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	96	70-130	A16110822	11/8/16 18:39	
Toluene-d8	103	70-130	A16110822	11/8/16 18:39	
Bromofluorobenzene	106	70-130	A16110822	11/8/16 18:39	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110824
Beacon Sample ID: GO115947
Client ID/Sampling Location: SV-14A
Date Time Collected: 10/26/16 3:38 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 7:25:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 19:25
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 19:25
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 19:25
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 19:25
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 19:25
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 19:25
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 19:25
Chloroform	U	10.00	U	2.05	11/8/16 19:25
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 19:25
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 19:25
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 19:25
Benzene	U	10.00	U	3.13	11/8/16 19:25
Trichloroethene	U	10.00	U	1.86	11/8/16 19:25
1,4-Dioxane	U	10.00	U	2.77	11/8/16 19:25
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 19:25
Toluene	31.71	10.00	8.42	2.65	11/8/16 19:25
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 19:25
Tetrachloroethene	U	10.00	U	1.47	11/8/16 19:25
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 19:25
Chlorobenzene	U	10.00	U	2.17	11/8/16 19:25
Ethylbenzene	U	10.00	U	2.30	11/8/16 19:25
p & m-Xylene	21.31	10.00	4.91	2.30	11/8/16 19:25
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 19:25
o-Xylene	U	10.00	U	2.30	11/8/16 19:25
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 19:25
Isopropylbenzene	U	10.00	U	2.03	11/8/16 19:25
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 19:25
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 19:25
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 19:25
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 19:25
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 19:25
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 19:25
Naphthalene	14.05	10.00	2.68	1.91	11/8/16 19:25
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 19:25
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 19:25
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	95	70-130	A16110824	11/8/16 19:25	
Toluene-d8	107	70-130	A16110824	11/8/16 19:25	
Bromofluorobenzene	107	70-130	A16110824	11/8/16 19:25	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110826
Beacon Sample ID: HO199673
Client ID/Sampling Location: SV-16A
Date Time Collected: 10/26/16 1:40 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 8:12:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 20:12
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 20:12
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 20:12
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 20:12
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 20:12
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 20:12
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 20:12
Chloroform	U	10.00	U	2.05	11/8/16 20:12
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 20:12
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 20:12
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 20:12
Benzene	U	10.00	U	3.13	11/8/16 20:12
Trichloroethene	U	10.00	U	1.86	11/8/16 20:12
1,4-Dioxane	U	10.00	U	2.77	11/8/16 20:12
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 20:12
Toluene	55.72	10.00	14.79	2.65	11/8/16 20:12
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 20:12
Tetrachloroethene	U	10.00	U	1.47	11/8/16 20:12
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 20:12
Chlorobenzene	U	10.00	U	2.17	11/8/16 20:12
Ethylbenzene	11.59	10.00	2.67	2.30	11/8/16 20:12
p & m-Xylene	39.66	10.00	9.13	2.30	11/8/16 20:12
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 20:12
o-Xylene	12.96	10.00	2.98	2.30	11/8/16 20:12
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 20:12
Isopropylbenzene	U	10.00	U	2.03	11/8/16 20:12
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 20:12
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 20:12
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:12
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:12
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:12
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 20:12
Naphthalene	24.05	10.00	4.59	1.91	11/8/16 20:12
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 20:12
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 20:12
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	94	70-130	A16110826	11/8/16 20:12	
Toluene-d8	105	70-130	A16110826	11/8/16 20:12	
Bromofluorobenzene	109	70-130	A16110826	11/8/16 20:12	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110828
Beacon Sample ID: HO232690
Client ID/Sampling Location: SV-17A
Date Time Collected: 10/26/16 2:23 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 8:59:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 20:59
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 20:59
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 20:59
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 20:59
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 20:59
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 20:59
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 20:59
Chloroform	U	10.00	U	2.05	11/8/16 20:59
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 20:59
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 20:59
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 20:59
Benzene	U	10.00	U	3.13	11/8/16 20:59
Trichloroethene	U	10.00	U	1.86	11/8/16 20:59
1,4-Dioxane	U	10.00	U	2.77	11/8/16 20:59
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 20:59
Toluene	41.0	10.00	10.88	2.65	11/8/16 20:59
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 20:59
Tetrachloroethene	U	10.00	U	1.47	11/8/16 20:59
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 20:59
Chlorobenzene	U	10.00	U	2.17	11/8/16 20:59
Ethylbenzene	10.04	10.00	2.31	2.30	11/8/16 20:59
p & m-Xylene	34.11	10.00	7.86	2.30	11/8/16 20:59
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 20:59
o-Xylene	12.04	10.00	2.77	2.30	11/8/16 20:59
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 20:59
Isopropylbenzene	U	10.00	U	2.03	11/8/16 20:59
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 20:59
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 20:59
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:59
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:59
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:59
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 20:59
Naphthalene	22.73	10.00	4.34	1.91	11/8/16 20:59
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 20:59
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 20:59
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	95	70-130	A16110828	11/8/16 20:59	
Toluene-d8	104	70-130	A16110828	11/8/16 20:59	
Bromofluorobenzene	107	70-130	A16110828	11/8/16 20:59	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110830
Beacon Sample ID: HO199664
Client ID/Sampling Location: SV-21A
Date Time Collected: 10/27/16 4:24 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 9:45:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 21:45
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 21:45
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 21:45
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 21:45
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 21:45
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 21:45
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 21:45
Chloroform	U	10.00	U	2.05	11/8/16 21:45
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 21:45
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 21:45
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 21:45
Benzene	U	10.00	U	3.13	11/8/16 21:45
Trichloroethene	U	10.00	U	1.86	11/8/16 21:45
1,4-Dioxane	14.72	10.00	4.08	2.77	11/8/16 21:45
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 21:45
Toluene	36.29	10.00	9.63	2.65	11/8/16 21:45
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 21:45
Tetrachloroethene	U	10.00	U	1.47	11/8/16 21:45
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 21:45
Chlorobenzene	U	10.00	U	2.17	11/8/16 21:45
Ethylbenzene	U	10.00	U	2.30	11/8/16 21:45
p & m-Xylene	U	10.00	U	2.30	11/8/16 21:45
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 21:45
o-Xylene	U	10.00	U	2.30	11/8/16 21:45
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 21:45
Isopropylbenzene	U	10.00	U	2.03	11/8/16 21:45
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 21:45
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 21:45
1,3-Dichlorobenzene	949.69 E	10.00	157.95 E	1.66	11/8/16 21:45
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 21:45
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 21:45
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 21:45
Naphthalene	U	10.00	U	1.91	11/8/16 21:45
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 21:45
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 21:45
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	94	70-130	A16110830	11/8/16 21:45	
Toluene-d8	103	70-130	A16110830	11/8/16 21:45	
Bromofluorobenzene	107	70-130	A16110830	11/8/16 21:45	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110832
Beacon Sample ID: HO200288
Client ID/Sampling Location: SV-23A
Date Time Collected: 10/27/16 4:57 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 10:31:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 22:31
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 22:31
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 22:31
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 22:31
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 22:31
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 22:31
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 22:31
Chloroform	U	10.00	U	2.05	11/8/16 22:31
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 22:31
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 22:31
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 22:31
Benzene	U	10.00	U	3.13	11/8/16 22:31
Trichloroethene	U	10.00	U	1.86	11/8/16 22:31
1,4-Dioxane	15.2	10.00	4.22	2.77	11/8/16 22:31
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 22:31
Toluene	28.15	10.00	7.47	2.65	11/8/16 22:31
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 22:31
Tetrachloroethene	U	10.00	U	1.47	11/8/16 22:31
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 22:31
Chlorobenzene	U	10.00	U	2.17	11/8/16 22:31
Ethylbenzene	U	10.00	U	2.30	11/8/16 22:31
p & m-Xylene	U	10.00	U	2.30	11/8/16 22:31
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 22:31
o-Xylene	U	10.00	U	2.30	11/8/16 22:31
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 22:31
Isopropylbenzene	U	10.00	U	2.03	11/8/16 22:31
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 22:31
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 22:31
1,3-Dichlorobenzene	1,076.85 E	10.00	179.1 E	1.66	11/8/16 22:31
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 22:31
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 22:31
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 22:31
Naphthalene	U	10.00	U	1.91	11/8/16 22:31
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 22:31
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 22:31
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	95	70-130	A16110832	11/8/16 22:31	
Toluene-d8	101	70-130	A16110832	11/8/16 22:31	
Bromofluorobenzene	107	70-130	A16110832	11/8/16 22:31	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110834
Beacon Sample ID: 1049249
Client ID/Sampling Location: SV-27A
Date Time Collected: 10/27/16 3:55 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/8/2016
Analysis Time: 11:18:00 PM
Beacon Job Number: 3588

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/8/16 23:18
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 23:18
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 23:18
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 23:18
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 23:18
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 23:18
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 23:18
Chloroform	U	10.00	U	2.05	11/8/16 23:18
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 23:18
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 23:18
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 23:18
Benzene	U	10.00	U	3.13	11/8/16 23:18
Trichloroethene	U	10.00	U	1.86	11/8/16 23:18
1,4-Dioxane	U	10.00	U	2.77	11/8/16 23:18
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 23:18
Toluene	45.91	10.00	12.18	2.65	11/8/16 23:18
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 23:18
Tetrachloroethene	U	10.00	U	1.47	11/8/16 23:18
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 23:18
Chlorobenzene	U	10.00	U	2.17	11/8/16 23:18
Ethylbenzene	U	10.00	U	2.30	11/8/16 23:18
p & m-Xylene	U	10.00	U	2.30	11/8/16 23:18
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 23:18
o-Xylene	U	10.00	U	2.30	11/8/16 23:18
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 23:18
Isopropylbenzene	U	10.00	U	2.03	11/8/16 23:18
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 23:18
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 23:18
1,3-Dichlorobenzene	876.94 E	10.00	145.85 E	1.66	11/8/16 23:18
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 23:18
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 23:18
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 23:18
Naphthalene	U	10.00	U	1.91	11/8/16 23:18
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 23:18
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 23:18
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	95	70-130	A16110834	11/8/16 23:18	
Toluene-d8	104	70-130	A16110834	11/8/16 23:18	
Bromofluorobenzene	107	70-130	A16110834	11/8/16 23:18	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110836
Beacon Sample ID: 1100863
Client ID/Sampling Location: SV-28A
Date Time Collected: 10/27/16 3:26 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/9/2016
Analysis Time: 12:07:00 AM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 0:07
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 0:07
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 0:07
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 0:07
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 0:07
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 0:07
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 0:07
Chloroform	U	10.00	U	2.05	11/9/16 0:07
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 0:07
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 0:07
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 0:07
Benzene	U	10.00	U	3.13	11/9/16 0:07
Trichloroethene	U	10.00	U	1.86	11/9/16 0:07
1,4-Dioxane	U	10.00	U	2.77	11/9/16 0:07
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 0:07
Toluene	47.19	10.00	12.52	2.65	11/9/16 0:07
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 0:07
Tetrachloroethene	U	10.00	U	1.47	11/9/16 0:07
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 0:07
Chlorobenzene	U	10.00	U	2.17	11/9/16 0:07
Ethylbenzene	U	10.00	U	2.30	11/9/16 0:07
p & m-Xylene	U	10.00	U	2.30	11/9/16 0:07
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 0:07
o-Xylene	U	10.00	U	2.30	11/9/16 0:07
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 0:07
Isopropylbenzene	U	10.00	U	2.03	11/9/16 0:07
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 0:07
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 0:07
1,3-Dichlorobenzene	1,179.27 E	10.00	196.13 E	1.66	11/9/16 0:07
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 0:07
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 0:07
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 0:07
Naphthalene	U	10.00	U	1.91	11/9/16 0:07
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 0:07
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 0:07
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	93	70-130	A16110836	11/9/16 0:07	
Toluene-d8	104	70-130	A16110836	11/9/16 0:07	
Bromofluorobenzene	107	70-130	A16110836	11/9/16 0:07	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110838
Beacon Sample ID: HO200227
Client ID/Sampling Location: SV-29A
Date Time Collected: 10/27/16 3:00 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/9/2016
Analysis Time: 12:53:00 AM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 0:53
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 0:53
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 0:53
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 0:53
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 0:53
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 0:53
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 0:53
Chloroform	U	10.00	U	2.05	11/9/16 0:53
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 0:53
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 0:53
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 0:53
Benzene	U	10.00	U	3.13	11/9/16 0:53
Trichloroethene	U	10.00	U	1.86	11/9/16 0:53
1,4-Dioxane	15.66	10.00	4.35	2.77	11/9/16 0:53
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 0:53
Toluene	56.02	10.00	14.87	2.65	11/9/16 0:53
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 0:53
Tetrachloroethene	U	10.00	U	1.47	11/9/16 0:53
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 0:53
Chlorobenzene	U	10.00	U	2.17	11/9/16 0:53
Ethylbenzene	U	10.00	U	2.30	11/9/16 0:53
p & m-Xylene	27.0	10.00	6.22	2.30	11/9/16 0:53
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 0:53
o-Xylene	U	10.00	U	2.30	11/9/16 0:53
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 0:53
Isopropylbenzene	U	10.00	U	2.03	11/9/16 0:53
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 0:53
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 0:53
1,3-Dichlorobenzene	10.06	10.00	1.67	1.66	11/9/16 0:53
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 0:53
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 0:53
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 0:53
Naphthalene	19.48	10.00	3.72	1.91	11/9/16 0:53
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 0:53
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 0:53
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	94	70-130	A16110838	11/9/16 0:53	
Toluene-d8	103	70-130	A16110838	11/9/16 0:53	
Bromofluorobenzene	108	70-130	A16110838	11/9/16 0:53	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110840
Beacon Sample ID: GO167057
Client ID/Sampling Location: SV-30A
Date Time Collected: 10/27/16 2:35 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/9/2016
Analysis Time: 1:39:00 AM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 1:39
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 1:39
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 1:39
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 1:39
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 1:39
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 1:39
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 1:39
Chloroform	U	10.00	U	2.05	11/9/16 1:39
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 1:39
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 1:39
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 1:39
Benzene	U	10.00	U	3.13	11/9/16 1:39
Trichloroethene	U	10.00	U	1.86	11/9/16 1:39
1,4-Dioxane	11.0	10.00	3.05	2.77	11/9/16 1:39
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 1:39
Toluene	42.76	10.00	11.35	2.65	11/9/16 1:39
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 1:39
Tetrachloroethene	U	10.00	U	1.47	11/9/16 1:39
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 1:39
Chlorobenzene	U	10.00	U	2.17	11/9/16 1:39
Ethylbenzene	U	10.00	U	2.30	11/9/16 1:39
p & m-Xylene	23.3	10.00	5.37	2.30	11/9/16 1:39
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 1:39
o-Xylene	U	10.00	U	2.30	11/9/16 1:39
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 1:39
Isopropylbenzene	U	10.00	U	2.03	11/9/16 1:39
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 1:39
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 1:39
1,3-Dichlorobenzene	U	10.00	U	1.66	11/9/16 1:39
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 1:39
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 1:39
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 1:39
Naphthalene	13.26	10.00	2.53	1.91	11/9/16 1:39
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 1:39
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 1:39
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	93	70-130	A16110840	11/9/16 1:39	
Toluene-d8	103	70-130	A16110840	11/9/16 1:39	
Bromofluorobenzene	107	70-130	A16110840	11/9/16 1:39	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110842
Beacon Sample ID: HO200236
Client ID/Sampling Location: SV-31A
Date Time Collected: 10/27/16 2:03 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/9/2016
Analysis Time: 2:26:00 AM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 2:26
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 2:26
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 2:26
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 2:26
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 2:26
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 2:26
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 2:26
Chloroform	U	10.00	U	2.05	11/9/16 2:26
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 2:26
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 2:26
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 2:26
Benzene	U	10.00	U	3.13	11/9/16 2:26
Trichloroethene	U	10.00	U	1.86	11/9/16 2:26
1,4-Dioxane	20.36	10.00	5.65	2.77	11/9/16 2:26
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 2:26
Toluene	40.32	10.00	10.7	2.65	11/9/16 2:26
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 2:26
Tetrachloroethene	U	10.00	U	1.47	11/9/16 2:26
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 2:26
Chlorobenzene	U	10.00	U	2.17	11/9/16 2:26
Ethylbenzene	U	10.00	U	2.30	11/9/16 2:26
p & m-Xylene	20.18	10.00	4.65	2.30	11/9/16 2:26
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 2:26
o-Xylene	U	10.00	U	2.30	11/9/16 2:26
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 2:26
Isopropylbenzene	U	10.00	U	2.03	11/9/16 2:26
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 2:26
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 2:26
1,3-Dichlorobenzene	U	10.00	U	1.66	11/9/16 2:26
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 2:26
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 2:26
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 2:26
Naphthalene	12.89	10.00	2.46	1.91	11/9/16 2:26
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 2:26
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 2:26
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	92	70-130	A16110842	11/9/16 2:26	
Toluene-d8	103	70-130	A16110842	11/9/16 2:26	
Bromofluorobenzene	108	70-130	A16110842	11/9/16 2:26	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110844
Beacon Sample ID: GO164954
Client ID/Sampling Location: SV-32A
Date Time Collected: 10/27/16 1:36 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/4/2016
Analysis Date: 11/9/2016
Analysis Time: 3:13:00 AM
Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 3:13
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 3:13
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 3:13
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 3:13
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 3:13
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 3:13
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 3:13
Chloroform	U	10.00	U	2.05	11/9/16 3:13
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 3:13
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 3:13
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 3:13
Benzene	U	10.00	U	3.13	11/9/16 3:13
Trichloroethene	U	10.00	U	1.86	11/9/16 3:13
1,4-Dioxane	13.64	10.00	3.79	2.77	11/9/16 3:13
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 3:13
Toluene	48.76	10.00	12.94	2.65	11/9/16 3:13
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 3:13
Tetrachloroethene	U	10.00	U	1.47	11/9/16 3:13
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 3:13
Chlorobenzene	U	10.00	U	2.17	11/9/16 3:13
Ethylbenzene	U	10.00	U	2.30	11/9/16 3:13
p & m-Xylene	22.89	10.00	5.27	2.30	11/9/16 3:13
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 3:13
o-Xylene	U	10.00	U	2.30	11/9/16 3:13
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 3:13
Isopropylbenzene	U	10.00	U	2.03	11/9/16 3:13
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 3:13
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 3:13
1,3-Dichlorobenzene	U	10.00	U	1.66	11/9/16 3:13
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 3:13
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 3:13
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 3:13
Naphthalene	12.38	10.00	2.36	1.91	11/9/16 3:13
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 3:13
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 3:13
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	93	70-130	A16110844	11/9/16 3:13	
Toluene-d8	103	70-130	A16110844	11/9/16 3:13	
Bromofluorobenzene	108	70-130	A16110844	11/9/16 3:13	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110903
Beacon Sample ID: LCS_161109a
Client ID/Sampling Location:
Date Time Collected:
Matrix:
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received:
Analysis Date: 11/9/2016
Analysis Time: 12:07:00 PM
Beacon Job Number:

	Results	Units	Completed	Limits
COMPOUNDS				
Vinyl Chloride	92%	%REC	11/9/16 12:07	80-120
1,1-Dichloroethene	100%	%REC	11/9/16 12:07	80-120
1,1,2-Trichlorotrifluoroethane (Fr.113)	83%	%REC	11/9/16 12:07	80-120
trans-1,2-Dichloroethene	103%	%REC	11/9/16 12:07	80-120
Methyl-t-butyl ether	89%	%REC	11/9/16 12:07	80-120
1,1-Dichloroethane	102%	%REC	11/9/16 12:07	80-120
cis-1,2-Dichloroethene	104%	%REC	11/9/16 12:07	80-120
Chloroform	101%	%REC	11/9/16 12:07	80-120
1,2-Dichloroethane	98%	%REC	11/9/16 12:07	80-120
1,1,1-Trichloroethane	91%	%REC	11/9/16 12:07	80-120
Carbon Tetrachloride	93%	%REC	11/9/16 12:07	80-120
Benzene	98%	%REC	11/9/16 12:07	80-120
Trichloroethene	105%	%REC	11/9/16 12:07	80-120
1,4-Dioxane	106%	%REC	11/9/16 12:07	80-120
1,1,2-Trichloroethane	105%	%REC	11/9/16 12:07	80-120
Toluene	114%	%REC	11/9/16 12:07	80-120
1,2-Dibromoethane (EDB)	111%	%REC	11/9/16 12:07	80-120
Tetrachloroethene	94%	%REC	11/9/16 12:07	80-120
1,1,1,2-Tetrachloroethane	99%	%REC	11/9/16 12:07	80-120
Chlorobenzene	100%	%REC	11/9/16 12:07	80-120
Ethylbenzene	103%	%REC	11/9/16 12:07	80-120
p & m-Xylene	105%	%REC	11/9/16 12:07	80-120
1,1,2,2-Tetrachloroethane	97%	%REC	11/9/16 12:07	80-120
o-Xylene	99%	%REC	11/9/16 12:07	80-120
1,2,3-Trichloropropane	95%	%REC	11/9/16 12:07	80-120
Isopropylbenzene	98%	%REC	11/9/16 12:07	80-120
1,3,5-Trimethylbenzene	111%	%REC	11/9/16 12:07	80-120
1,2,4-Trimethylbenzene	102%	%REC	11/9/16 12:07	80-120
1,3-Dichlorobenzene	104%	%REC	11/9/16 12:07	80-120
1,4-Dichlorobenzene	101%	%REC	11/9/16 12:07	80-120
1,2-Dichlorobenzene	105%	%REC	11/9/16 12:07	80-120
1,2,4-Trichlorobenzene	112%	%REC	11/9/16 12:07	80-120
Naphthalene	109%	%REC	11/9/16 12:07	80-120
1,2,3-Trichlorobenzene	109%	%REC	11/9/16 12:07	80-120
2-Methylnaphthalene	99%	%REC	11/9/16 12:07	80-120
SURROGATES				
	Percent Recovery	Limits	Completed	Lab File ID
1,2-DCA-d4	105	70-130	11/9/16 12:07	A16110903
Toluene-d8	109	70-130	11/9/16 12:07	A16110903
Bromofluorobenzene	109	70-130	11/9/16 12:07	A16110903

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110904
Beacon Sample ID: LB_161109a
Client ID/Sampling Location:
Date Time Collected:
Matrix:
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received:
Analysis Date: 11/9/2016
Analysis Time: 12:31:00 PM
Beacon Job Number:

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 12:31
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 12:31
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 12:31
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 12:31
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 12:31
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 12:31
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 12:31
Chloroform	U	10.00	U	2.05	11/9/16 12:31
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 12:31
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 12:31
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 12:31
Benzene	U	10.00	U	3.13	11/9/16 12:31
Trichloroethene	U	10.00	U	1.86	11/9/16 12:31
1,4-Dioxane	U	10.00	U	2.77	11/9/16 12:31
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 12:31
Toluene	U	10.00	U	2.65	11/9/16 12:31
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 12:31
Tetrachloroethene	U	10.00	U	1.47	11/9/16 12:31
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 12:31
Chlorobenzene	U	10.00	U	2.17	11/9/16 12:31
Ethylbenzene	U	10.00	U	2.30	11/9/16 12:31
p & m-Xylene	U	10.00	U	2.30	11/9/16 12:31
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 12:31
o-Xylene	U	10.00	U	2.30	11/9/16 12:31
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 12:31
Isopropylbenzene	U	10.00	U	2.03	11/9/16 12:31
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 12:31
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 12:31
1,3-Dichlorobenzene	U	10.00	U	1.66	11/9/16 12:31
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 12:31
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 12:31
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 12:31
Naphthalene	U	10.00	U	1.91	11/9/16 12:31
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 12:31
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 12:31
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	102	70-130	A16110904	11/9/16 12:31	
Toluene-d8	106	70-130	A16110904	11/9/16 12:31	
Bromofluorobenzene	101	70-130	A16110904	11/9/16 12:31	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110905
Beacon Sample ID: LCSD_161109a
Client ID/Sampling Location:
Date Time Collected:
Matrix:
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received:
Analysis Date: 11/9/2016
Analysis Time: 12:54:00 PM
Beacon Job Number:

	Results	Units	Completed	Limits
COMPOUNDS				
Vinyl Chloride	89%	%REC	11/9/16 12:54	70-130
1,1-Dichloroethene	90%	%REC	11/9/16 12:54	70-130
1,1,2-Trichlorotrifluoroethane (Fr.113)	74%	%REC	11/9/16 12:54	70-130
trans-1,2-Dichloroethene	103%	%REC	11/9/16 12:54	70-130
Methyl-t-butyl ether	86%	%REC	11/9/16 12:54	70-130
1,1-Dichloroethane	106%	%REC	11/9/16 12:54	70-130
cis-1,2-Dichloroethene	104%	%REC	11/9/16 12:54	70-130
Chloroform	104%	%REC	11/9/16 12:54	70-130
1,2-Dichloroethane	97%	%REC	11/9/16 12:54	70-130
1,1,1-Trichloroethane	89%	%REC	11/9/16 12:54	70-130
Carbon Tetrachloride	89%	%REC	11/9/16 12:54	70-130
Benzene	100%	%REC	11/9/16 12:54	70-130
Trichloroethene	106%	%REC	11/9/16 12:54	70-130
1,4-Dioxane	108%	%REC	11/9/16 12:54	70-130
1,1,2-Trichloroethane	106%	%REC	11/9/16 12:54	70-130
Toluene	108%	%REC	11/9/16 12:54	70-130
1,2-Dibromoethane (EDB)	111%	%REC	11/9/16 12:54	70-130
Tetrachloroethene	97%	%REC	11/9/16 12:54	70-130
1,1,1,2-Tetrachloroethane	100%	%REC	11/9/16 12:54	70-130
Chlorobenzene	102%	%REC	11/9/16 12:54	70-130
Ethylbenzene	100%	%REC	11/9/16 12:54	70-130
p & m-Xylene	99%	%REC	11/9/16 12:54	70-130
1,1,2,2-Tetrachloroethane	100%	%REC	11/9/16 12:54	70-130
o-Xylene	97%	%REC	11/9/16 12:54	70-130
1,2,3-Trichloropropane	97%	%REC	11/9/16 12:54	70-130
Isopropylbenzene	98%	%REC	11/9/16 12:54	70-130
1,3,5-Trimethylbenzene	108%	%REC	11/9/16 12:54	70-130
1,2,4-Trimethylbenzene	99%	%REC	11/9/16 12:54	70-130
1,3-Dichlorobenzene	102%	%REC	11/9/16 12:54	70-130
1,4-Dichlorobenzene	104%	%REC	11/9/16 12:54	70-130
1,2-Dichlorobenzene	103%	%REC	11/9/16 12:54	70-130
1,2,4-Trichlorobenzene	111%	%REC	11/9/16 12:54	70-130
Naphthalene	106%	%REC	11/9/16 12:54	70-130
1,2,3-Trichlorobenzene	104%	%REC	11/9/16 12:54	70-130
2-Methylnaphthalene	98%	%REC	11/9/16 12:54	70-130
SURROGATES				
1,2-DCA-d4	99	70-130	11/9/16 12:54	A16110905
Toluene-d8	110	70-130	11/9/16 12:54	A16110905
Bromofluorobenzene	104	70-130	11/9/16 12:54	A16110905

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110906
Beacon Sample ID: H0199658
Client ID/Sampling Location: SV-08-04
Date Time Collected: 10/31/16 4:14 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 1:19:00 PM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/9/16 13:19
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 13:19
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 13:19
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 13:19
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 13:19
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 13:19
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 13:19
Chloroform	U	10.00	U	2.05	11/9/16 13:19
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 13:19
1,1,1-Trichloroethane	13.15	10.00	2.41	1.83	11/9/16 13:19
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 13:19
Benzene	10.57	10.00	3.31	3.13	11/9/16 13:19
Trichloroethene	U	10.00	U	1.86	11/9/16 13:19
1,4-Dioxane	15.33	10.00	4.25	2.77	11/9/16 13:19
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 13:19
Toluene	57.07	10.00	15.15	2.65	11/9/16 13:19
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 13:19
Tetrachloroethene	U	10.00	U	1.47	11/9/16 13:19
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 13:19
Chlorobenzene	U	10.00	U	2.17	11/9/16 13:19
Ethylbenzene	U	10.00	U	2.30	11/9/16 13:19
p & m-Xylene	11.15	10.00	2.57	2.30	11/9/16 13:19
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 13:19
o-Xylene	U	10.00	U	2.30	11/9/16 13:19
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 13:19
Isopropylbenzene	U	10.00	U	2.03	11/9/16 13:19
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 13:19
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 13:19
1,3-Dichlorobenzene	108.32	10.00	18.02	1.66	11/9/16 13:19
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 13:19
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 13:19
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 13:19
Naphthalene	U	10.00	U	1.91	11/9/16 13:19
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 13:19
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 13:19
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SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	99	70-130	A16110906	11/9/16 13:19	
Toluene-d8	103	70-130	A16110906	11/9/16 13:19	
Bromofluorobenzene	108	70-130	A16110906	11/9/16 13:19	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110908
Beacon Sample ID: H0199622
Client ID/Sampling Location: SV-08-03
Date Time Collected: 10/31/16 4:52 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 2:09:00 PM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/9/16 14:09
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 14:09
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 14:09
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 14:09
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 14:09
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 14:09
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 14:09
Chloroform	U	10.00	U	2.05	11/9/16 14:09
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 14:09
1,1,1-Trichloroethane	16.02	10.00	2.94	1.83	11/9/16 14:09
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 14:09
Benzene	10.18	10.00	3.19	3.13	11/9/16 14:09
Trichloroethene	U	10.00	U	1.86	11/9/16 14:09
1,4-Dioxane	12.82	10.00	3.56	2.77	11/9/16 14:09
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 14:09
Toluene	52.86	10.00	14.03	2.65	11/9/16 14:09
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 14:09
Tetrachloroethene	U	10.00	U	1.47	11/9/16 14:09
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 14:09
Chlorobenzene	U	10.00	U	2.17	11/9/16 14:09
Ethylbenzene	U	10.00	U	2.30	11/9/16 14:09
p & m-Xylene	U	10.00	U	2.30	11/9/16 14:09
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 14:09
o-Xylene	U	10.00	U	2.30	11/9/16 14:09
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 14:09
Isopropylbenzene	U	10.00	U	2.03	11/9/16 14:09
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 14:09
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 14:09
1,3-Dichlorobenzene	1,207.58 E	10.00	200.84 E	1.66	11/9/16 14:09
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 14:09
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 14:09
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 14:09
Naphthalene	U	10.00	U	1.91	11/9/16 14:09
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 14:09
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 14:09
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SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	97	70-130	A16110908	11/9/16 14:09	
Toluene-d8	105	70-130	A16110908	11/9/16 14:09	
Bromofluorobenzene	105	70-130	A16110908	11/9/16 14:09	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110910
Beacon Sample ID: H0238242
Client ID/Sampling Location: SV-07-01
Date Time Collected: 11/2/16 11:35 AM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 2:56:00 PM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/9/16 14:56
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 14:56
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 14:56
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 14:56
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 14:56
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 14:56
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 14:56
Chloroform	U	10.00	U	2.05	11/9/16 14:56
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 14:56
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 14:56
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 14:56
Benzene	U	10.00	U	3.13	11/9/16 14:56
Trichloroethene	U	10.00	U	1.86	11/9/16 14:56
1,4-Dioxane	U	10.00	U	2.77	11/9/16 14:56
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 14:56
Toluene	U	10.00	U	2.65	11/9/16 14:56
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 14:56
Tetrachloroethene	U	10.00	U	1.47	11/9/16 14:56
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 14:56
Chlorobenzene	U	10.00	U	2.17	11/9/16 14:56
Ethylbenzene	U	10.00	U	2.30	11/9/16 14:56
p & m-Xylene	U	10.00	U	2.30	11/9/16 14:56
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 14:56
o-Xylene	U	10.00	U	2.30	11/9/16 14:56
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 14:56
Isopropylbenzene	U	10.00	U	2.03	11/9/16 14:56
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 14:56
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 14:56
1,3-Dichlorobenzene	U	10.00	U	1.66	11/9/16 14:56
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 14:56
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 14:56
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 14:56
Naphthalene	U	10.00	U	1.91	11/9/16 14:56
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 14:56
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 14:56
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SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	99	70-130	A16110910	11/9/16 14:56	
Toluene-d8	105	70-130	A16110910	11/9/16 14:56	
Bromofluorobenzene	105	70-130	A16110910	11/9/16 14:56	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110912
Beacon Sample ID: H0234516
Client ID/Sampling Location: SV-07-02
Date Time Collected: 11/2/16 12:32 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 3:42:00 PM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/9/16 15:42
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 15:42
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 15:42
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 15:42
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 15:42
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 15:42
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 15:42
Chloroform	U	10.00	U	2.05	11/9/16 15:42
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 15:42
1,1,1-Trichloroethane	17.4	10.00	3.19	1.83	11/9/16 15:42
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 15:42
Benzene	11.89	10.00	3.72	3.13	11/9/16 15:42
Trichloroethene	U	10.00	U	1.86	11/9/16 15:42
1,4-Dioxane	U	10.00	U	2.77	11/9/16 15:42
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 15:42
Toluene	126.72	10.00	33.63	2.65	11/9/16 15:42
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 15:42
Tetrachloroethene	U	10.00	U	1.47	11/9/16 15:42
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 15:42
Chlorobenzene	U	10.00	U	2.17	11/9/16 15:42
Ethylbenzene	14.41	10.00	3.32	2.30	11/9/16 15:42
p & m-Xylene	39.65	10.00	9.13	2.30	11/9/16 15:42
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 15:42
o-Xylene	U	10.00	U	2.30	11/9/16 15:42
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 15:42
Isopropylbenzene	U	10.00	U	2.03	11/9/16 15:42
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 15:42
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 15:42
1,3-Dichlorobenzene	1,013.24 E	10.00	168.52 E	1.66	11/9/16 15:42
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 15:42
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 15:42
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 15:42
Naphthalene	U	10.00	U	1.91	11/9/16 15:42
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 15:42
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 15:42
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SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	98	70-130	A16110912	11/9/16 15:42	
Toluene-d8	105	70-130	A16110912	11/9/16 15:42	
Bromofluorobenzene	106	70-130	A16110912	11/9/16 15:42	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110914
Beacon Sample ID: G0115976
Client ID/Sampling Location: SV-07-04
Date Time Collected: 11/2/16 12:59 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 4:29:00 PM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/9/16 16:29
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 16:29
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 16:29
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 16:29
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 16:29
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 16:29
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 16:29
Chloroform	U	10.00	U	2.05	11/9/16 16:29
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 16:29
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 16:29
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 16:29
Benzene	U	10.00	U	3.13	11/9/16 16:29
Trichloroethene	U	10.00	U	1.86	11/9/16 16:29
1,4-Dioxane	U	10.00	U	2.77	11/9/16 16:29
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 16:29
Toluene	121.69	10.00	32.29	2.65	11/9/16 16:29
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 16:29
Tetrachloroethene	U	10.00	U	1.47	11/9/16 16:29
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 16:29
Chlorobenzene	U	10.00	U	2.17	11/9/16 16:29
Ethylbenzene	16.45	10.00	3.79	2.30	11/9/16 16:29
p & m-Xylene	43.8	10.00	10.09	2.30	11/9/16 16:29
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 16:29
o-Xylene	10.91	10.00	2.51	2.30	11/9/16 16:29
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 16:29
Isopropylbenzene	U	10.00	U	2.03	11/9/16 16:29
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 16:29
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 16:29
1,3-Dichlorobenzene	1,109.66 E	10.00	184.55 E	1.66	11/9/16 16:29
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 16:29
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 16:29
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 16:29
Naphthalene	U	10.00	U	1.91	11/9/16 16:29
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 16:29
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 16:29
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	99	70-130	A16110914	11/9/16 16:29	
Toluene-d8	104	70-130	A16110914	11/9/16 16:29	
Bromofluorobenzene	106	70-130	A16110914	11/9/16 16:29	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110916
Beacon Sample ID: G0115955
Client ID/Sampling Location: SV-07-03
Date Time Collected: 11/2/16 1:21 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 5:16:00 PM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/9/16 17:16
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 17:16
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 17:16
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 17:16
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 17:16
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 17:16
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 17:16
Chloroform	U	10.00	U	2.05	11/9/16 17:16
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 17:16
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 17:16
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 17:16
Benzene	10.85	10.00	3.4	3.13	11/9/16 17:16
Trichloroethene	U	10.00	U	1.86	11/9/16 17:16
1,4-Dioxane	12.68	10.00	3.52	2.77	11/9/16 17:16
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 17:16
Toluene	93.8	10.00	24.89	2.65	11/9/16 17:16
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 17:16
Tetrachloroethene	U	10.00	U	1.47	11/9/16 17:16
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 17:16
Chlorobenzene	U	10.00	U	2.17	11/9/16 17:16
Ethylbenzene	14.04	10.00	3.23	2.30	11/9/16 17:16
p & m-Xylene	37.35	10.00	8.6	2.30	11/9/16 17:16
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 17:16
o-Xylene	U	10.00	U	2.30	11/9/16 17:16
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 17:16
Isopropylbenzene	U	10.00	U	2.03	11/9/16 17:16
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 17:16
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 17:16
1,3-Dichlorobenzene	1,127.89 E	10.00	187.59 E	1.66	11/9/16 17:16
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 17:16
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 17:16
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 17:16
Naphthalene	U	10.00	U	1.91	11/9/16 17:16
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 17:16
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 17:16
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	95	70-130	A16110916	11/9/16 17:16	
Toluene-d8	103	70-130	A16110916	11/9/16 17:16	
Bromofluorobenzene	105	70-130	A16110916	11/9/16 17:16	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110918
Beacon Sample ID: G0166889
Client ID/Sampling Location: SV-08-05
Date Time Collected: 11/2/16 1:52 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 6:05:00 PM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/9/16 18:05
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 18:05
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 18:05
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 18:05
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 18:05
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 18:05
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 18:05
Chloroform	U	10.00	U	2.05	11/9/16 18:05
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 18:05
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 18:05
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 18:05
Benzene	U	10.00	U	3.13	11/9/16 18:05
Trichloroethene	U	10.00	U	1.86	11/9/16 18:05
1,4-Dioxane	U	10.00	U	2.77	11/9/16 18:05
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 18:05
Toluene	65.96	10.00	17.5	2.65	11/9/16 18:05
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 18:05
Tetrachloroethene	U	10.00	U	1.47	11/9/16 18:05
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 18:05
Chlorobenzene	U	10.00	U	2.17	11/9/16 18:05
Ethylbenzene	11.07	10.00	2.55	2.30	11/9/16 18:05
p & m-Xylene	30.27	10.00	6.97	2.30	11/9/16 18:05
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 18:05
o-Xylene	U	10.00	U	2.30	11/9/16 18:05
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 18:05
Isopropylbenzene	U	10.00	U	2.03	11/9/16 18:05
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 18:05
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 18:05
1,3-Dichlorobenzene	904.26 E	10.00	150.39 E	1.66	11/9/16 18:05
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 18:05
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 18:05
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 18:05
Naphthalene	59.69	10.00	11.39	1.91	11/9/16 18:05
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 18:05
2-Methylnaphthalene	16.43	10.00	2.82	1.72	11/9/16 18:05
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	96	70-130	A16110918	11/9/16 18:05	
Toluene-d8	104	70-130	A16110918	11/9/16 18:05	
Bromofluorobenzene	105	70-130	A16110918	11/9/16 18:05	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110920
Beacon Sample ID: H0232630
Client ID/Sampling Location: SV-08-06
Date Time Collected: 11/2/16 2:15 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 6:51:00 PM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/9/16 18:51
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 18:51
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 18:51
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 18:51
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 18:51
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 18:51
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 18:51
Chloroform	U	10.00	U	2.05	11/9/16 18:51
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 18:51
1,1,1-Trichloroethane	18.38	10.00	3.37	1.83	11/9/16 18:51
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 18:51
Benzene	U	10.00	U	3.13	11/9/16 18:51
Trichloroethene	U	10.00	U	1.86	11/9/16 18:51
1,4-Dioxane	U	10.00	U	2.77	11/9/16 18:51
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 18:51
Toluene	70.62	10.00	18.74	2.65	11/9/16 18:51
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 18:51
Tetrachloroethene	U	10.00	U	1.47	11/9/16 18:51
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 18:51
Chlorobenzene	U	10.00	U	2.17	11/9/16 18:51
Ethylbenzene	12.02	10.00	2.77	2.30	11/9/16 18:51
p & m-Xylene	33.56	10.00	7.73	2.30	11/9/16 18:51
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 18:51
o-Xylene	U	10.00	U	2.30	11/9/16 18:51
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 18:51
Isopropylbenzene	U	10.00	U	2.03	11/9/16 18:51
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 18:51
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 18:51
1,3-Dichlorobenzene	974.36 E	10.00	162.05 E	1.66	11/9/16 18:51
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 18:51
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 18:51
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 18:51
Naphthalene	12.95	10.00	2.47	1.91	11/9/16 18:51
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 18:51
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 18:51
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SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	97	70-130	A16110920	11/9/16 18:51	
Toluene-d8	104	70-130	A16110920	11/9/16 18:51	
Bromofluorobenzene	107	70-130	A16110920	11/9/16 18:51	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110922
Beacon Sample ID: 1101399
Client ID/Sampling Location: SV-08-02
Date Time Collected: 11/2/16 2:50 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 7:38:00 PM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/9/16 19:38
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 19:38
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 19:38
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 19:38
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 19:38
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 19:38
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 19:38
Chloroform	U	10.00	U	2.05	11/9/16 19:38
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 19:38
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 19:38
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 19:38
Benzene	U	10.00	U	3.13	11/9/16 19:38
Trichloroethene	U	10.00	U	1.86	11/9/16 19:38
1,4-Dioxane	U	10.00	U	2.77	11/9/16 19:38
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 19:38
Toluene	21.02	10.00	5.58	2.65	11/9/16 19:38
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 19:38
Tetrachloroethene	U	10.00	U	1.47	11/9/16 19:38
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 19:38
Chlorobenzene	U	10.00	U	2.17	11/9/16 19:38
Ethylbenzene	U	10.00	U	2.30	11/9/16 19:38
p & m-Xylene	U	10.00	U	2.30	11/9/16 19:38
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 19:38
o-Xylene	U	10.00	U	2.30	11/9/16 19:38
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 19:38
Isopropylbenzene	U	10.00	U	2.03	11/9/16 19:38
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 19:38
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 19:38
1,3-Dichlorobenzene	113.95	10.00	18.95	1.66	11/9/16 19:38
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 19:38
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 19:38
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 19:38
Naphthalene	U	10.00	U	1.91	11/9/16 19:38
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 19:38
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 19:38
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	93	70-130	A16110922	11/9/16 19:38	
Toluene-d8	105	70-130	A16110922	11/9/16 19:38	
Bromofluorobenzene	109	70-130	A16110922	11/9/16 19:38	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110924
Beacon Sample ID: H0234844
Client ID/Sampling Location: SV-08-09
Date Time Collected: 11/2/16 4:36 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 8:24:00 PM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/9/16 20:24
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 20:24
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 20:24
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 20:24
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 20:24
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 20:24
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 20:24
Chloroform	U	10.00	U	2.05	11/9/16 20:24
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 20:24
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 20:24
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 20:24
Benzene	U	10.00	U	3.13	11/9/16 20:24
Trichloroethene	U	10.00	U	1.86	11/9/16 20:24
1,4-Dioxane	U	10.00	U	2.77	11/9/16 20:24
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 20:24
Toluene	45.32	10.00	12.03	2.65	11/9/16 20:24
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 20:24
Tetrachloroethene	U	10.00	U	1.47	11/9/16 20:24
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 20:24
Chlorobenzene	U	10.00	U	2.17	11/9/16 20:24
Ethylbenzene	U	10.00	U	2.30	11/9/16 20:24
p & m-Xylene	23.46	10.00	5.4	2.30	11/9/16 20:24
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 20:24
o-Xylene	U	10.00	U	2.30	11/9/16 20:24
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 20:24
Isopropylbenzene	U	10.00	U	2.03	11/9/16 20:24
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 20:24
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 20:24
1,3-Dichlorobenzene	834.78 E	10.00	138.84 E	1.66	11/9/16 20:24
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 20:24
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 20:24
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 20:24
Naphthalene	7.38 J	10.00	1.41 J	1.91	11/9/16 20:24
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 20:24
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 20:24
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	93	70-130	A16110924	11/9/16 20:24	
Toluene-d8	104	70-130	A16110924	11/9/16 20:24	
Bromofluorobenzene	109	70-130	A16110924	11/9/16 20:24	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110926
Beacon Sample ID: G0177969
Client ID/Sampling Location: SV-08-10
Date Time Collected: 11/2/16 4:56 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 9:10:00 PM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/9/16 21:10
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 21:10
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 21:10
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 21:10
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 21:10
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 21:10
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 21:10
Chloroform	U	10.00	U	2.05	11/9/16 21:10
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 21:10
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 21:10
Carbon Tetrachloride	11.31	10.00	1.8	1.59	11/9/16 21:10
Benzene	U	10.00	U	3.13	11/9/16 21:10
Trichloroethene	U	10.00	U	1.86	11/9/16 21:10
1,4-Dioxane	U	10.00	U	2.77	11/9/16 21:10
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 21:10
Toluene	47.67	10.00	12.65	2.65	11/9/16 21:10
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 21:10
Tetrachloroethene	U	10.00	U	1.47	11/9/16 21:10
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 21:10
Chlorobenzene	U	10.00	U	2.17	11/9/16 21:10
Ethylbenzene	10.95	10.00	2.52	2.30	11/9/16 21:10
p & m-Xylene	27.47	10.00	6.33	2.30	11/9/16 21:10
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 21:10
o-Xylene	U	10.00	U	2.30	11/9/16 21:10
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 21:10
Isopropylbenzene	U	10.00	U	2.03	11/9/16 21:10
1,3,5-Trimethylbenzene	17.41	10.00	3.54	2.03	11/9/16 21:10
1,2,4-Trimethylbenzene	46.07	10.00	9.37	2.03	11/9/16 21:10
1,3-Dichlorobenzene	626.19 E	10.00	104.14 E	1.66	11/9/16 21:10
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 21:10
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 21:10
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 21:10
Naphthalene	55.0	10.00	10.49	1.91	11/9/16 21:10
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 21:10
2-Methylnaphthalene	13.25	10.00	2.28	1.72	11/9/16 21:10
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	93	70-130	A16110926	11/9/16 21:10	
Toluene-d8	104	70-130	A16110926	11/9/16 21:10	
Bromofluorobenzene	111	70-130	A16110926	11/9/16 21:10	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110928
Beacon Sample ID: H0234580
Client ID/Sampling Location: SV-03-03
Date Time Collected: 11/3/16 9:10 AM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 10:00:00 PM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/9/16 22:00
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 22:00
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 22:00
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 22:00
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 22:00
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 22:00
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 22:00
Chloroform	U	10.00	U	2.05	11/9/16 22:00
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 22:00
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 22:00
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 22:00
Benzene	U	10.00	U	3.13	11/9/16 22:00
Trichloroethene	U	10.00	U	1.86	11/9/16 22:00
1,4-Dioxane	U	10.00	U	2.77	11/9/16 22:00
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 22:00
Toluene	U	10.00	U	2.65	11/9/16 22:00
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 22:00
Tetrachloroethene	U	10.00	U	1.47	11/9/16 22:00
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 22:00
Chlorobenzene	U	10.00	U	2.17	11/9/16 22:00
Ethylbenzene	U	10.00	U	2.30	11/9/16 22:00
p & m-Xylene	U	10.00	U	2.30	11/9/16 22:00
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 22:00
o-Xylene	U	10.00	U	2.30	11/9/16 22:00
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 22:00
Isopropylbenzene	U	10.00	U	2.03	11/9/16 22:00
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 22:00
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 22:00
1,3-Dichlorobenzene	56.82	10.00	9.45	1.66	11/9/16 22:00
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 22:00
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 22:00
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 22:00
Naphthalene	U	10.00	U	1.91	11/9/16 22:00
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 22:00
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 22:00
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	92	70-130	A16110928	11/9/16 22:00	
Toluene-d8	103	70-130	A16110928	11/9/16 22:00	
Bromofluorobenzene	107	70-130	A16110928	11/9/16 22:00	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110930
Beacon Sample ID: G0178581
Client ID/Sampling Location: SV-03-02
Date Time Collected: 11/3/16 9:26 AM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 10:46:00 PM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/9/16 22:46
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 22:46
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 22:46
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 22:46
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 22:46
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 22:46
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 22:46
Chloroform	U	10.00	U	2.05	11/9/16 22:46
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 22:46
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 22:46
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 22:46
Benzene	U	10.00	U	3.13	11/9/16 22:46
Trichloroethene	U	10.00	U	1.86	11/9/16 22:46
1,4-Dioxane	U	10.00	U	2.77	11/9/16 22:46
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 22:46
Toluene	U	10.00	U	2.65	11/9/16 22:46
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 22:46
Tetrachloroethene	76.08	10.00	11.22	1.47	11/9/16 22:46
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 22:46
Chlorobenzene	U	10.00	U	2.17	11/9/16 22:46
Ethylbenzene	U	10.00	U	2.30	11/9/16 22:46
p & m-Xylene	U	10.00	U	2.30	11/9/16 22:46
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 22:46
o-Xylene	U	10.00	U	2.30	11/9/16 22:46
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 22:46
Isopropylbenzene	U	10.00	U	2.03	11/9/16 22:46
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 22:46
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 22:46
1,3-Dichlorobenzene	30.19	10.00	5.02	1.66	11/9/16 22:46
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 22:46
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 22:46
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 22:46
Naphthalene	U	10.00	U	1.91	11/9/16 22:46
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 22:46
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 22:46
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	93	70-130	A16110930	11/9/16 22:46	
Toluene-d8	104	70-130	A16110930	11/9/16 22:46	
Bromofluorobenzene	107	70-130	A16110930	11/9/16 22:46	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110932
Beacon Sample ID: H0234875
Client ID/Sampling Location: SV-03-01
Date Time Collected: 11/3/16 9:41 AM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/9/2016
Analysis Time: 11:32:00 PM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/9/16 23:32
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 23:32
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 23:32
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 23:32
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 23:32
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 23:32
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 23:32
Chloroform	U	10.00	U	2.05	11/9/16 23:32
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 23:32
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 23:32
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 23:32
Benzene	U	10.00	U	3.13	11/9/16 23:32
Trichloroethene	U	10.00	U	1.86	11/9/16 23:32
1,4-Dioxane	U	10.00	U	2.77	11/9/16 23:32
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 23:32
Toluene	U	10.00	U	2.65	11/9/16 23:32
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 23:32
Tetrachloroethene	U	10.00	U	1.47	11/9/16 23:32
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 23:32
Chlorobenzene	U	10.00	U	2.17	11/9/16 23:32
Ethylbenzene	U	10.00	U	2.30	11/9/16 23:32
p & m-Xylene	U	10.00	U	2.30	11/9/16 23:32
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 23:32
o-Xylene	U	10.00	U	2.30	11/9/16 23:32
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 23:32
Isopropylbenzene	U	10.00	U	2.03	11/9/16 23:32
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 23:32
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 23:32
1,3-Dichlorobenzene	67.65	10.00	11.25	1.66	11/9/16 23:32
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 23:32
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 23:32
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 23:32
Naphthalene	U	10.00	U	1.91	11/9/16 23:32
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 23:32
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 23:32
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	94	70-130	A16110932	11/9/16 23:32	
Toluene-d8	103	70-130	A16110932	11/9/16 23:32	
Bromofluorobenzene	107	70-130	A16110932	11/9/16 23:32	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110934
Beacon Sample ID: G0164568
Client ID/Sampling Location: SV-08-07
Date Time Collected: 11/3/16 10:41 AM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/10/2016
Analysis Time: 12:20:00 AM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/10/16 0:20
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 0:20
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 0:20
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 0:20
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 0:20
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 0:20
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 0:20
Chloroform	U	10.00	U	2.05	11/10/16 0:20
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 0:20
1,1,1-Trichloroethane	10.17	10.00	1.86	1.83	11/10/16 0:20
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 0:20
Benzene	U	10.00	U	3.13	11/10/16 0:20
Trichloroethene	U	10.00	U	1.86	11/10/16 0:20
1,4-Dioxane	U	10.00	U	2.77	11/10/16 0:20
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 0:20
Toluene	106.17	10.00	28.18	2.65	11/10/16 0:20
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 0:20
Tetrachloroethene	U	10.00	U	1.47	11/10/16 0:20
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 0:20
Chlorobenzene	U	10.00	U	2.17	11/10/16 0:20
Ethylbenzene	18.63	10.00	4.29	2.30	11/10/16 0:20
p & m-Xylene	46.51	10.00	10.71	2.30	11/10/16 0:20
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 0:20
o-Xylene	12.78	10.00	2.94	2.30	11/10/16 0:20
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 0:20
Isopropylbenzene	U	10.00	U	2.03	11/10/16 0:20
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 0:20
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 0:20
1,3-Dichlorobenzene	470.72 E	10.00	78.29 E	1.66	11/10/16 0:20
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 0:20
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 0:20
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 0:20
Naphthalene	89.4	10.00	17.06	1.91	11/10/16 0:20
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 0:20
2-Methylnaphthalene	21.28	10.00	3.66	1.72	11/10/16 0:20
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	92	70-130	A16110934	11/10/16 0:20	
Toluene-d8	101	70-130	A16110934	11/10/16 0:20	
Bromofluorobenzene	106	70-130	A16110934	11/10/16 0:20	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110936
Beacon Sample ID: H0234589
Client ID/Sampling Location: SV-08-08
Date Time Collected: 11/3/16 11:05 AM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/10/2016
Analysis Time: 1:07:00 AM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/10/16 1:07
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 1:07
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 1:07
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 1:07
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 1:07
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 1:07
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 1:07
Chloroform	U	10.00	U	2.05	11/10/16 1:07
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 1:07
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 1:07
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 1:07
Benzene	U	10.00	U	3.13	11/10/16 1:07
Trichloroethene	U	10.00	U	1.86	11/10/16 1:07
1,4-Dioxane	U	10.00	U	2.77	11/10/16 1:07
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 1:07
Toluene	94.74	10.00	25.14	2.65	11/10/16 1:07
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 1:07
Tetrachloroethene	U	10.00	U	1.47	11/10/16 1:07
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 1:07
Chlorobenzene	U	10.00	U	2.17	11/10/16 1:07
Ethylbenzene	13.59	10.00	3.13	2.30	11/10/16 1:07
p & m-Xylene	35.28	10.00	8.12	2.30	11/10/16 1:07
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 1:07
o-Xylene	U	10.00	U	2.30	11/10/16 1:07
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 1:07
Isopropylbenzene	U	10.00	U	2.03	11/10/16 1:07
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 1:07
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 1:07
1,3-Dichlorobenzene	794.56 E	10.00	132.15 E	1.66	11/10/16 1:07
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 1:07
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 1:07
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 1:07
Naphthalene	4.22 J	10.00	0.81 J	1.91	11/10/16 1:07
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 1:07
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 1:07
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	93	70-130	A16110936	11/10/16 1:07	
Toluene-d8	103	70-130	A16110936	11/10/16 1:07	
Bromofluorobenzene	107	70-130	A16110936	11/10/16 1:07	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110938
Beacon Sample ID: G0164999
Client ID/Sampling Location: SV-08-01
Date Time Collected: 11/3/16 11:31 AM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/10/2016
Analysis Time: 1:53:00 AM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/10/16 1:53
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 1:53
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 1:53
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 1:53
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 1:53
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 1:53
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 1:53
Chloroform	U	10.00	U	2.05	11/10/16 1:53
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 1:53
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 1:53
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 1:53
Benzene	U	10.00	U	3.13	11/10/16 1:53
Trichloroethene	U	10.00	U	1.86	11/10/16 1:53
1,4-Dioxane	U	10.00	U	2.77	11/10/16 1:53
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 1:53
Toluene	29.05	10.00	7.71	2.65	11/10/16 1:53
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 1:53
Tetrachloroethene	U	10.00	U	1.47	11/10/16 1:53
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 1:53
Chlorobenzene	U	10.00	U	2.17	11/10/16 1:53
Ethylbenzene	U	10.00	U	2.30	11/10/16 1:53
p & m-Xylene	U	10.00	U	2.30	11/10/16 1:53
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 1:53
o-Xylene	U	10.00	U	2.30	11/10/16 1:53
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 1:53
Isopropylbenzene	U	10.00	U	2.03	11/10/16 1:53
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 1:53
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 1:53
1,3-Dichlorobenzene	130.6	10.00	21.72	1.66	11/10/16 1:53
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 1:53
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 1:53
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 1:53
Naphthalene	U	10.00	U	1.91	11/10/16 1:53
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 1:53
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 1:53
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	95	70-130	A16110938	11/10/16 1:53	
Toluene-d8	102	70-130	A16110938	11/10/16 1:53	
Bromofluorobenzene	103	70-130	A16110938	11/10/16 1:53	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110940
Beacon Sample ID: 1100817
Client ID/Sampling Location: SV-05-01
Date Time Collected: 11/3/16 1:22 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/10/2016
Analysis Time: 2:40:00 AM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/10/16 2:40
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 2:40
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 2:40
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 2:40
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 2:40
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 2:40
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 2:40
Chloroform	U	10.00	U	2.05	11/10/16 2:40
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 2:40
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 2:40
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 2:40
Benzene	U	10.00	U	3.13	11/10/16 2:40
Trichloroethene	U	10.00	U	1.86	11/10/16 2:40
1,4-Dioxane	U	10.00	U	2.77	11/10/16 2:40
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 2:40
Toluene	36.46	10.00	9.68	2.65	11/10/16 2:40
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 2:40
Tetrachloroethene	U	10.00	U	1.47	11/10/16 2:40
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 2:40
Chlorobenzene	U	10.00	U	2.17	11/10/16 2:40
Ethylbenzene	U	10.00	U	2.30	11/10/16 2:40
p & m-Xylene	25.08	10.00	5.78	2.30	11/10/16 2:40
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 2:40
o-Xylene	U	10.00	U	2.30	11/10/16 2:40
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 2:40
Isopropylbenzene	U	10.00	U	2.03	11/10/16 2:40
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 2:40
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 2:40
1,3-Dichlorobenzene	312.02 E	10.00	51.89 E	1.66	11/10/16 2:40
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 2:40
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 2:40
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 2:40
Naphthalene	6.07 J	10.00	1.16 J	1.91	11/10/16 2:40
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 2:40
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 2:40
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	94	70-130	A16110940	11/10/16 2:40	
Toluene-d8	102	70-130	A16110940	11/10/16 2:40	
Bromofluorobenzene	108	70-130	A16110940	11/10/16 2:40	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110942
Beacon Sample ID: 1049459
Client ID/Sampling Location: SV-05-02
Date Time Collected: 11/3/16 1:42 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/10/2016
Analysis Time: 3:26:00 AM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/10/16 3:26
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 3:26
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 3:26
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 3:26
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 3:26
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 3:26
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 3:26
Chloroform	U	10.00	U	2.05	11/10/16 3:26
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 3:26
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 3:26
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 3:26
Benzene	U	10.00	U	3.13	11/10/16 3:26
Trichloroethene	U	10.00	U	1.86	11/10/16 3:26
1,4-Dioxane	U	10.00	U	2.77	11/10/16 3:26
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 3:26
Toluene	54.1	10.00	14.36	2.65	11/10/16 3:26
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 3:26
Tetrachloroethene	U	10.00	U	1.47	11/10/16 3:26
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 3:26
Chlorobenzene	U	10.00	U	2.17	11/10/16 3:26
Ethylbenzene	13.54	10.00	3.12	2.30	11/10/16 3:26
p & m-Xylene	34.33	10.00	7.91	2.30	11/10/16 3:26
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 3:26
o-Xylene	11.79	10.00	2.72	2.30	11/10/16 3:26
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 3:26
Isopropylbenzene	U	10.00	U	2.03	11/10/16 3:26
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 3:26
1,2,4-Trimethylbenzene	10.82	10.00	2.2	2.03	11/10/16 3:26
1,3-Dichlorobenzene	338.87 E	10.00	56.36 E	1.66	11/10/16 3:26
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 3:26
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 3:26
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 3:26
Naphthalene	3.63 J	10.00	0.69 J	1.91	11/10/16 3:26
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 3:26
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 3:26
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	93	70-130	A16110942	11/10/16 3:26	
Toluene-d8	102	70-130	A16110942	11/10/16 3:26	
Bromofluorobenzene	109	70-130	A16110942	11/10/16 3:26	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110944
Beacon Sample ID: 1049520
Client ID/Sampling Location: SV-05-03
Date Time Collected: 11/3/16 2:10 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/10/2016
Analysis Time: 4:12:00 AM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/10/16 4:12
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 4:12
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 4:12
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 4:12
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 4:12
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 4:12
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 4:12
Chloroform	U	10.00	U	2.05	11/10/16 4:12
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 4:12
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 4:12
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 4:12
Benzene	U	10.00	U	3.13	11/10/16 4:12
Trichloroethene	U	10.00	U	1.86	11/10/16 4:12
1,4-Dioxane	U	10.00	U	2.77	11/10/16 4:12
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 4:12
Toluene	38.06	10.00	10.1	2.65	11/10/16 4:12
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 4:12
Tetrachloroethene	U	10.00	U	1.47	11/10/16 4:12
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 4:12
Chlorobenzene	U	10.00	U	2.17	11/10/16 4:12
Ethylbenzene	10.15	10.00	2.34	2.30	11/10/16 4:12
p & m-Xylene	25.24	10.00	5.81	2.30	11/10/16 4:12
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 4:12
o-Xylene	U	10.00	U	2.30	11/10/16 4:12
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 4:12
Isopropylbenzene	U	10.00	U	2.03	11/10/16 4:12
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 4:12
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 4:12
1,3-Dichlorobenzene	481.16 E	10.00	80.02 E	1.66	11/10/16 4:12
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 4:12
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 4:12
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 4:12
Naphthalene	18.82	10.00	3.59	1.91	11/10/16 4:12
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 4:12
2-Methylnaphthalene	14.12	10.00	2.43	1.72	11/10/16 4:12
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	92	70-130	A16110944	11/10/16 4:12	
Toluene-d8	101	70-130	A16110944	11/10/16 4:12	
Bromofluorobenzene	108	70-130	A16110944	11/10/16 4:12	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110946
Beacon Sample ID: G0177980
Client ID/Sampling Location: SV-05-05
Date Time Collected: 11/3/16 2:42 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/10/2016
Analysis Time: 4:59:00 AM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/10/16 4:59
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 4:59
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 4:59
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 4:59
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 4:59
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 4:59
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 4:59
Chloroform	U	10.00	U	2.05	11/10/16 4:59
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 4:59
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 4:59
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 4:59
Benzene	U	10.00	U	3.13	11/10/16 4:59
Trichloroethene	U	10.00	U	1.86	11/10/16 4:59
1,4-Dioxane	U	10.00	U	2.77	11/10/16 4:59
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 4:59
Toluene	31.06	10.00	8.24	2.65	11/10/16 4:59
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 4:59
Tetrachloroethene	U	10.00	U	1.47	11/10/16 4:59
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 4:59
Chlorobenzene	U	10.00	U	2.17	11/10/16 4:59
Ethylbenzene	U	10.00	U	2.30	11/10/16 4:59
p & m-Xylene	19.08	10.00	4.39	2.30	11/10/16 4:59
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 4:59
o-Xylene	U	10.00	U	2.30	11/10/16 4:59
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 4:59
Isopropylbenzene	U	10.00	U	2.03	11/10/16 4:59
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 4:59
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 4:59
1,3-Dichlorobenzene	439.9 E	10.00	73.16 E	1.66	11/10/16 4:59
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 4:59
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 4:59
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 4:59
Naphthalene	3.08 J	10.00	0.59 J	1.91	11/10/16 4:59
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 4:59
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 4:59
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	91	70-130	A16110946	11/10/16 4:59	
Toluene-d8	102	70-130	A16110946	11/10/16 4:59	
Bromofluorobenzene	108	70-130	A16110946	11/10/16 4:59	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110948
Beacon Sample ID: H0231898
Client ID/Sampling Location: SV-05-04
Date Time Collected: 11/3/16 2:28 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/10/2016
Analysis Time: 5:45:00 AM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/10/16 5:45
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 5:45
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 5:45
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 5:45
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 5:45
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 5:45
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 5:45
Chloroform	U	10.00	U	2.05	11/10/16 5:45
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 5:45
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 5:45
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 5:45
Benzene	U	10.00	U	3.13	11/10/16 5:45
Trichloroethene	U	10.00	U	1.86	11/10/16 5:45
1,4-Dioxane	U	10.00	U	2.77	11/10/16 5:45
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 5:45
Toluene	41.01	10.00	10.88	2.65	11/10/16 5:45
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 5:45
Tetrachloroethene	U	10.00	U	1.47	11/10/16 5:45
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 5:45
Chlorobenzene	U	10.00	U	2.17	11/10/16 5:45
Ethylbenzene	10.35	10.00	2.38	2.30	11/10/16 5:45
p & m-Xylene	25.17	10.00	5.8	2.30	11/10/16 5:45
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 5:45
o-Xylene	U	10.00	U	2.30	11/10/16 5:45
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 5:45
Isopropylbenzene	U	10.00	U	2.03	11/10/16 5:45
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 5:45
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 5:45
1,3-Dichlorobenzene	396.72 E	10.00	65.98 E	1.66	11/10/16 5:45
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 5:45
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 5:45
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 5:45
Naphthalene	80.59	10.00	15.37	1.91	11/10/16 5:45
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 5:45
2-Methylnaphthalene	27.52	10.00	4.73	1.72	11/10/16 5:45
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	92	70-130	A16110948	11/10/16 5:45	
Toluene-d8	102	70-130	A16110948	11/10/16 5:45	
Bromofluorobenzene	107	70-130	A16110948	11/10/16 5:45	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:
Vista GeoScience
130 Capital Drive, Suite C
Golden, CO

Lab File ID: A16110950
Beacon Sample ID: 1101163
Client ID/Sampling Location: SV-05-06
Date Time Collected: 11/3/16 3:06 PM
Matrix: Soil Gas
Dilution Factor: 1.0
Sample Volume in Liters: 1.00
Date Received: 11/8/2016
Analysis Date: 11/10/2016
Analysis Time: 6:32:00 AM
Beacon Job Number: 3588B

COMPOUNDS	Results	LOQ	Results	LOQ	Completed
	ug/m3	ug/m3	ppbv	ppbv	
Vinyl Chloride	U	10.00	U	3.91	11/10/16 6:32
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 6:32
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 6:32
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 6:32
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 6:32
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 6:32
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 6:32
Chloroform	U	10.00	U	2.05	11/10/16 6:32
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 6:32
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 6:32
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 6:32
Benzene	U	10.00	U	3.13	11/10/16 6:32
Trichloroethene	U	10.00	U	1.86	11/10/16 6:32
1,4-Dioxane	U	10.00	U	2.77	11/10/16 6:32
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 6:32
Toluene	34.42	10.00	9.13	2.65	11/10/16 6:32
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 6:32
Tetrachloroethene	U	10.00	U	1.47	11/10/16 6:32
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 6:32
Chlorobenzene	U	10.00	U	2.17	11/10/16 6:32
Ethylbenzene	11.04	10.00	2.54	2.30	11/10/16 6:32
p & m-Xylene	27.78	10.00	6.4	2.30	11/10/16 6:32
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 6:32
o-Xylene	U	10.00	U	2.30	11/10/16 6:32
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 6:32
Isopropylbenzene	U	10.00	U	2.03	11/10/16 6:32
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 6:32
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 6:32
1,3-Dichlorobenzene	397.51 E	10.00	66.11 E	1.66	11/10/16 6:32
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 6:32
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 6:32
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 6:32
Naphthalene	3.63 J	10.00	0.69 J	1.91	11/10/16 6:32
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 6:32
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 6:32
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	93	70-130	A16110950	11/10/16 6:32	
Toluene-d8	102	70-130	A16110950	11/10/16 6:32	
Bromofluorobenzene	108	70-130	A16110950	11/10/16 6:32	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Attachment 1

Chain of Custody



**Beacon
Environmental
Services, Inc.**

CHAIN-OF-CUSTODY RECORD

2203A Commerce Road, Suite 1
Forest Hill, MD 21050
410-838-8780 / fax: 410-838-8740



CHAIN-OF-CUSTODY RECORD

2203A Commerce Road, Suite 1
Forest Hill, MD 21050
410-838-8780 / fax: 410-838-8740

Client Contact Information		Project Manager:		BEACON Project No.: 3588					
Company: <u>Tintco</u>	Phone:	Client PO No.	Analysis Turnaround Time	Analysis	Matrix				
Address:	Project Name:								
City/State/Zip:	Location:	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush (Specify): _____ days							
Phone:	Sampler Name(s):								
Location ID	Tube ID Number	Pump ID Number	Start Time	Stop Time	Post-survey Measured Pump Flow Rate (mL/min)				
			Date	Time		Temp. (F)	Date	Time	
SV-16 A	HD199673	PDA-P101-AA	10/26	13:35	10/26	13:40	200 mL/min	200 mL/min	X
SV-16 B	HD200129			13:35			200 mL/min	200 mL/min	
SV-17 A	HD232690			14:18			200 mL/min	200 mL/min	
SV-17 B	HD199667			14:18			200 mL/min	200 mL/min	
SV-03 A	HD234823			14:56			200 mL/min	200 mL/min	
SV-03 B	HD200222			14:56			200 mL/min	200 mL/min	
SV-14 A	GD115947			15:53			200 mL/min	200 mL/min	
SV-14 B	GD115903			15:53			200 mL/min	200 mL/min	
SV-04 A	GD119804			16:05			200 mL/min	200 mL/min	
SV-04 B	GD165746			16:05			200 mL/min	200 mL/min	
Ambient Conditions When Sampling									
	Temperature (F)	Barometric Pressure (mmHg)	Date	Cal. Tube ID:	Lab or Field	Date/Time:	Pump(s) Calibration and Flow Rate Check:		
Start	71° F	25.28 mmHg	10/26	Pre-Survey			Operator name		
Stop	75° F	25.17 mmHg	10/26	Post-Survey					
Special Notes/Instructions:									
Relinquished by: (signature)	<u>JEFFREY C</u>	Date/Time: <u>10/31/16</u>	12:30	Received by: (signature)	<u>August Beaven</u>	Date/Time: <u>11/4/2016 13:27</u>			
Relinquished by: (signature)		Date/Time:		Received by: (signature)		Date/Time:			
Relinquished by: (signature)		Date/Time:		Received by: (signature)		Date/Time:			
Lab Use Only	Courier Name <u>FedEx</u>	Shipment Condition <u>good</u>	Sample Delivery Group ID <u>3000</u>	Custody Seal Intact <input checked="" type="checkbox"/>	Custody Seal ID <u>6603986</u>	Custody Seal No. <u>6603986</u>			



Beacon
Environmental
Services, Inc.

CHAIN-OF-CUSTODY RECORD

2203A Commerce Road, Suite 1
Forest Hill, MD 21050
410-838-8780 / fax: 410-838-8740



**Beacon
Environmental
Services, Inc.**

CHAIN-OF-CUSTODY RECORD

2203A Commerce Road, Suite 1
Forest Hill, MD 21050
410-838-8780 / fax: 410-838-8740

Client Contact Information		Project Manager:		BEACON Project No.: 3588				
Company: <i>Tentex</i>	Phone:	Client PO No.		Analysis	Matrix			
Address:	Project Name:	Analysis Turnaround Time						
City/State/Zip:	Location:	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush (Specify): _____ days						
Phone:	Sampler Name(s):	Start Time	Stop Time	Pre-survey Measured Pump Flow Rate (mL/min)	Post-survey Measured Pump Flow Rate (mL/min)			
Location ID	Tube ID Number	Pump ID Number	Date	Temp. (F)	Time			
SV-32 A	GD164954	RD-P101-AA	10/27	13:31	10/27 13:36	200 mL/min	200 mL/min	X
SV-32 B	GD177478			13:31		200 mL/min	200 mL/min	
SV-31 A	HD200236			13:58		200 mL/min	200 mL/min	
SV-31 D	M102939			13:58		200 mL/min	200 mL/min	
SV-30 A	GD167057			14:30		200 mL/min	200 mL/min	
SV-30 B	GD164172			14:30		200 mL/min	200 mL/min	
SV-29 A	HD200227			14:55		200 mL/min	200 mL/min	
SV-29 B	HD200271			14:55		200 mL/min	200 mL/min	
SV-29 A	HD000863			15:21		200 mL/min	200 mL/min	
SV-28 B	HD000830			15:21		200 mL/min	200 mL/min	
Ambient Conditions When Sampling								
	Temperature (F)	Barometric Pressure (mmHg)	Date	Cal. Tube ID:	Lab or Field	Flow Meter Make/Serial #	Operator name	Date/Time:
Start	74 ° F	25.26 mm Hg	10/27	Pre-Survey				Date/Time:
Stop				Post-Survey				Date/Time:
Special Notes/Instructions:								
Relinquished by: (signature) <i>J. S. Sandoval</i>	Date/Time: <i>10/31/16</i>	12:30	Received by: (signature) <i>Augusto Benavides</i>	Date			Date/Time: <i>11/4/2016 13:17:46</i>	
Relinquished by: (signature)	Date/Time:		Received by: (signature)			Date/Time:		
Relinquished by: (signature)	Date/Time:		Received by: (signature)			Date/Time:		
Lab Use Only	Courier Name <i>FedEx</i>	Shipment Condition <i>Good</i>	Sample Delivery Group ID	Custody Seal Intact <input checked="" type="checkbox"/> Yes	No	Custody Seal No. <i>0603986</i>		



Beacon
Environmental
Services, Inc.

CHAIN-OF-CUSTODY RECORD

2203A Commerce Road, Suite 1
Forest Hill, MD 21050
410-838-8780 / fax: 410-838-8740



CHAIN-OFF-CUSTODY RECORD

2203A Commerce Road, Suite 1
Forest Hill, MD 21050
410-838-8780 / fax: 410-838-8740

Client Contact Information				BEACON Project No.: 3588B			
Company: INTERA	Project Manager: Joe Tracy, jtracy@intera.com	Phone: 505-246-1600	Client PO No.	Analysis Turnaround Time		Matrix	
Address: 6000 Upton Blvd NW, Suite 220	Project Name: Abq Nuclear			<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush (Specify): _____ days	Indoor / Ambient Air	Soil Gases
City/State/Zip: Albuquerque, NM 87106 87110	Location: Albuquerque, NM					TICs	8260B
Phone: 505-246-1600	Sampler Name(s): M.H. Sigh, Frank Rocker Clegg					TO-17	
Location ID	Tube ID Number	Pump ID Number		Start Time	Stop Time	Temp. (F)	Post-survey Measured Pump Flow Rate (mL/min)
SV-08-04	H0199658	INTERA-1		10/31/16 1609	10/31/16 1614	200	200
SV-08-04	H0199609	INTERA-1		10/31/16 1609	10/31/16 1614	200	200
SV-08-03	H0199622	INTERA-1		10/31/16 1647	10/31/16 1652	200	200
SV-08-03	G0177440	INTERA-1		10/31/16 1647	10/31/16 1652	200	200
SV-07-01	H0238242	INTERA-1		11/2/16 1130	11/2/16 1135	200	200
SV-07-01	H02333606	INTERA-1		11/2/16 1130	11/2/16 1135	200	200
SV-07-02	H0234514	INTERA-1		11/2/16 1227	11/2/16 1232	200	200
SV-07-02	H0234566	INTERA-1		11/2/16 1227	11/2/16 1232	200	200
SV-07-04	G0115976	INTERA-1		11/2/16 1254	11/2/16 1259	200	200
SV-07-04	G0165061	INTERA-1		11/2/16 1254	11/2/16 1259	200	200
Pump(s) Calibration and Flow Rate Check:							
Start	Temperature (F)	Barometric Pressure (mmHg)	Date	Cal. Tube ID:	Lab or Field	Flow Meter Make/Serial #	
Stop				Pre-Survey	Post-Survey		
Special Notes/Instructions: Install date is date vapor pin set pins sit idle for at least 24-hours before sampling. Retain date is Sampling date. 5 min coda/loss							
Relinquished by: (signature)		Date/Time: <i>J.W. H. J.</i>	11/2/2016 11:37	Received by: (signature)	<i>Amy Rennert</i>	Date/Time: 11/8/2016 14:28h	Sample for
Relinquished by: (signature)		Date/Time:		Received by: (signature)		Date/Time:	Retention
Relinquished by: (signature)		Date/Time:		Received by: (signature)		Date/Time:	Sampling
Lab Use Only	Courier Name <i>FedEx</i>	Shipment Condition <i>good</i>	Sample Delivery Group ID <i> </i>	Custody Seal Intact <i>Yes</i>	No <i>None</i>	Custody Seal No. <i> </i>	



CHAIN-OFF-CUSTODY RECORD

2203A Commerce Road, Suite 1
Forest Hill, MD 21050
410-838-8780 / fax: 410-838-8740

Client Contact Information

Company: **Intera**
Address: **6000 Yunn Blvd NE, Ste 220**
City/State/Zip: **Albuquerque, NM 87110**
Phone: **505-246-1600**

Project Manager: **Tee Tracy j
Phone: **505-246-1600****

Project Name: **Ab Railroad**
Location: **Albuquerque, NM**

Sampler Name(s): **MH Swift, Frank Becker Clark Short**
Rush (Specify): **days**

Location ID	Tube ID Number	Pump ID Number	Date	Time	Temp. (F)	Stop Time	Temp. (F)	Post-Survey Measured Pump Flow Rate (mL/min)	TICs	Indoor / Ambient Air
SV-07-03	G011 5955	INTERA-1	11/2/16	1316	11/2/16	1321		200	X	X
SV-07-04	H0234849	INTERA-1	11/2/16	1316	11/2/16	1321		200	X	X
SV-08-05	G0166889	INTERA-1	11/2/16	1347	11/2/16	1352		200	X	X
SV-08-05	H0231858	INTERA-1	11/2/16	1347	11/2/16	1352		200	X	X
SV-08-06	H0232630	INTERA-1	11/2/16	1410	11/2/16	1415		200	X	X
SV-08-06	G0164508	INTERA-1	11/2/16	1410	11/2/16	1415		200	X	X
SV-08-02	1101399	INTERA-1	11/2/16	1445	11/2/16	1450		200	X	X
SV-08-02	G0177907	INTERA-1	11/2/16	1445	11/2/16	1450		200	X	X
SV-08-05	H0231844	INTERA-1	11/2/16	1631	11/2/16	1636		200	X	X
SV-08-09	11008861	INTERA-1	11/2/16	1631	11/2/16	1636		200	X	X

Ambient Conditions When Sampling

Temperature (F)	Barometric Pressure (mmHg)	Date	Cal. Tube ID:	Lab or Field	Pump(s) Calibration and Flow Rate Check:
Start			Pre-Survey		
Stop			Post-Survey		

Special Notes/Instructions:

Install date is date vapor probe was set. Pins sit idle 24-hrs before sampling. Retrieval date is Sampling date. Sample for 5 min @ 200cc/min	Received by: <i>Augusto Barrios</i> (signature)	Date/Time: <i>11/17/2016 14:28h</i>
Relinquished by: <i>M.W. Johnson</i> (signature)	Received by: <i></i> (signature)	Date/Time: <i></i>
Relinquished by: <i></i> (signature)	Received by: <i></i> (signature)	Date/Time: <i></i>
Relinquished by: <i></i> (signature)	Received by: <i></i> (signature)	Date/Time: <i></i>

Lab Use Only Courier Name **FedEx** Sample Delivery Group ID **good** Custody Seal Intact **Yes** No **(None)** Custody Seal No.

B

CHAIN-OF-CUSTODY RECORD

2203A Commerce Road, Suite 1
Forest Hill, MD 21050
410-838-8780 / fax: 410-838-8740

Client Contact Information		Project Manager: Joe Tracy, Tracy@intera.com		BEACON Project No.: 3588B	
Company:	INTERA	Phone:	505-246-1600	Client PO No.	
Address:	6000 University Blvd, Ste 720	Project Name:	Joe's Reward	Analysis Turnaround Time	
City/State/Zip:	Albuquerque, NM 87110	Location:	Albuquerque, NM	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush (Specify): _____ days
Phone:	505-246-1600	Sampler Name(s): MTH Sulph, Frank Nodder, Jack Short		Soil Gas	
Location ID	Tube ID Number	Pump ID Number	Start Time	Stop Time	TICs
SV-08-10	G0177969	INTERA 2	11/2/16 1651	11/2/16 1656	8260B
SV-08-10	1049357	INTERA 1	11/2/16 1651	11/2/16 1656	TO-17
SV-03-03	H02334580	INTERA 1	11/3/16 0905	11/3/16 0910	Indoor / Ambient Air
SV-03-03	H0233696	INTERA 4	11/3/16 0905	11/3/16 0910	
SV-03-02	G0178581	INTERA 2	11/3/16 0921	11/3/16 0926	
SV-03-02	G0177972	INTERA 4	11/3/16 0921	11/3/16 0926	
SV-03-01	H0234875	INTERA 2	11/3/16 0936	11/3/16 0941	
SV-03-01	G0177464	INTERA 1	11/3/16 0936	11/3/16 0941	
SV-08-07	G0164568	INTERA 1	11/3/16 1036	11/3/16 1041	
SV-08-07	H0231896	INTERA 4	11/3/16 1036	11/3/16 1041	
Ambient Conditions When Sampling					
Start	Temperature (F)	Barometric Pressure (mmHg)	Cal. Tube ID:	Date	Lab or Field
Stop			Pre-Survey		Flow Meter Make/Serial #
Special Notes/Instructions:					
Last 1 date reper. in set. Pins sit idle for 24-hrs before sampling. Retrieval date is sampling date. Sample for 5 min at 200cc/min.					
Relinquished by: (signature)		Date/Time: 11/7/2016 11:37	Received by: <i>Joe's Reward</i> (signature)	Date/Time: 11/8/2016 14:28:41	Date/Time: 11/8/2016 14:28:41
Relinquished by: (signature)		Date/Time:	Received by: (signature)	Date/Time:	
Relinquished by: (signature)		Date/Time:	Received by: (signature)	Date/Time:	
Lab Use Only	Courier Name	Shipment Condition	Sample Delivery Group ID	Custody Seal Intact	Custody Seal No.
	FedEx	Good		Yes	No <input checked="" type="checkbox"/>



CHAIN-OFF-CUSTODY RECORD

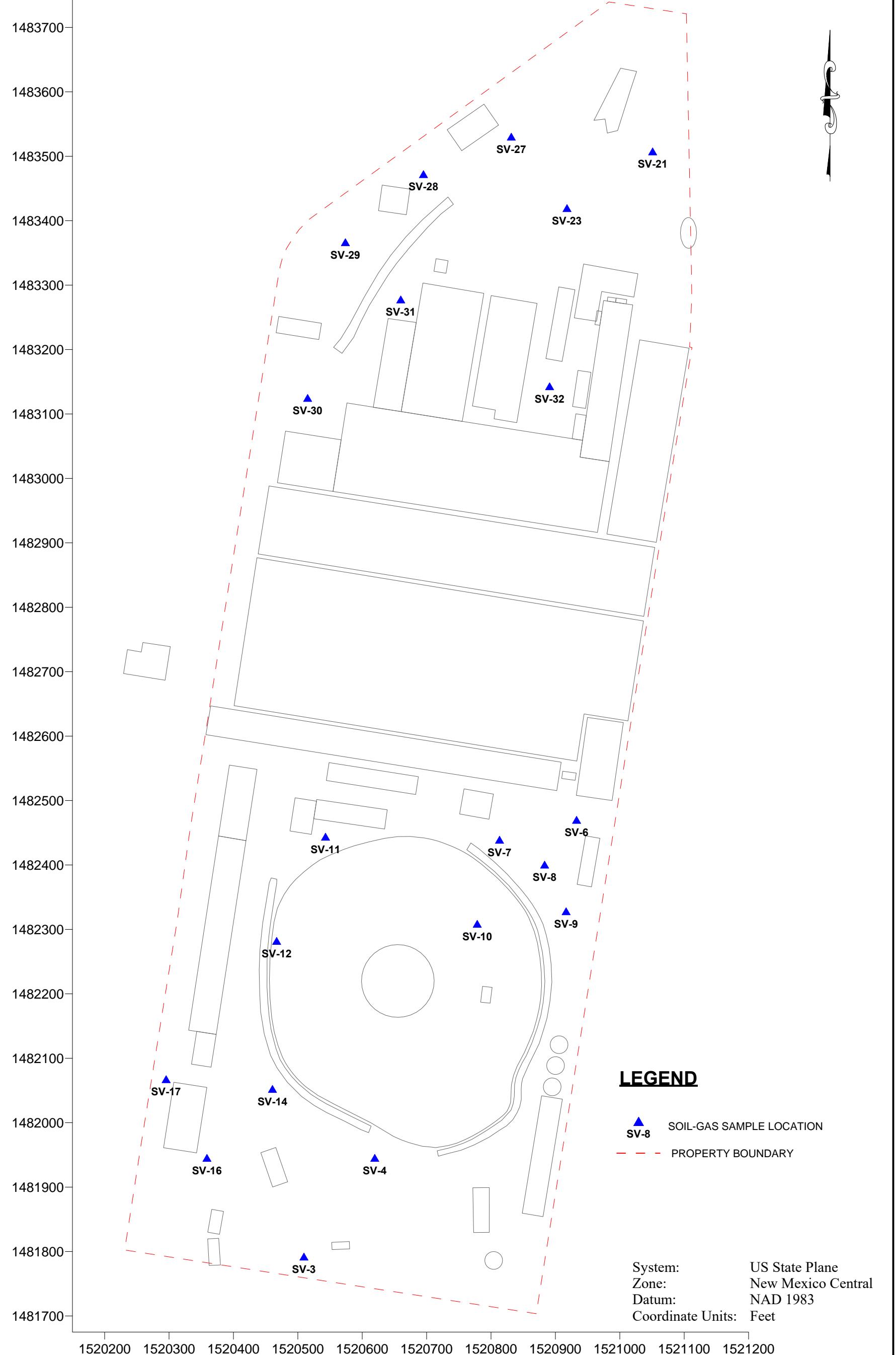
2203A Commerce Road, Suite 1
Forest Hill, MD 21050
410-838-8780 / fax: 410-838-8740

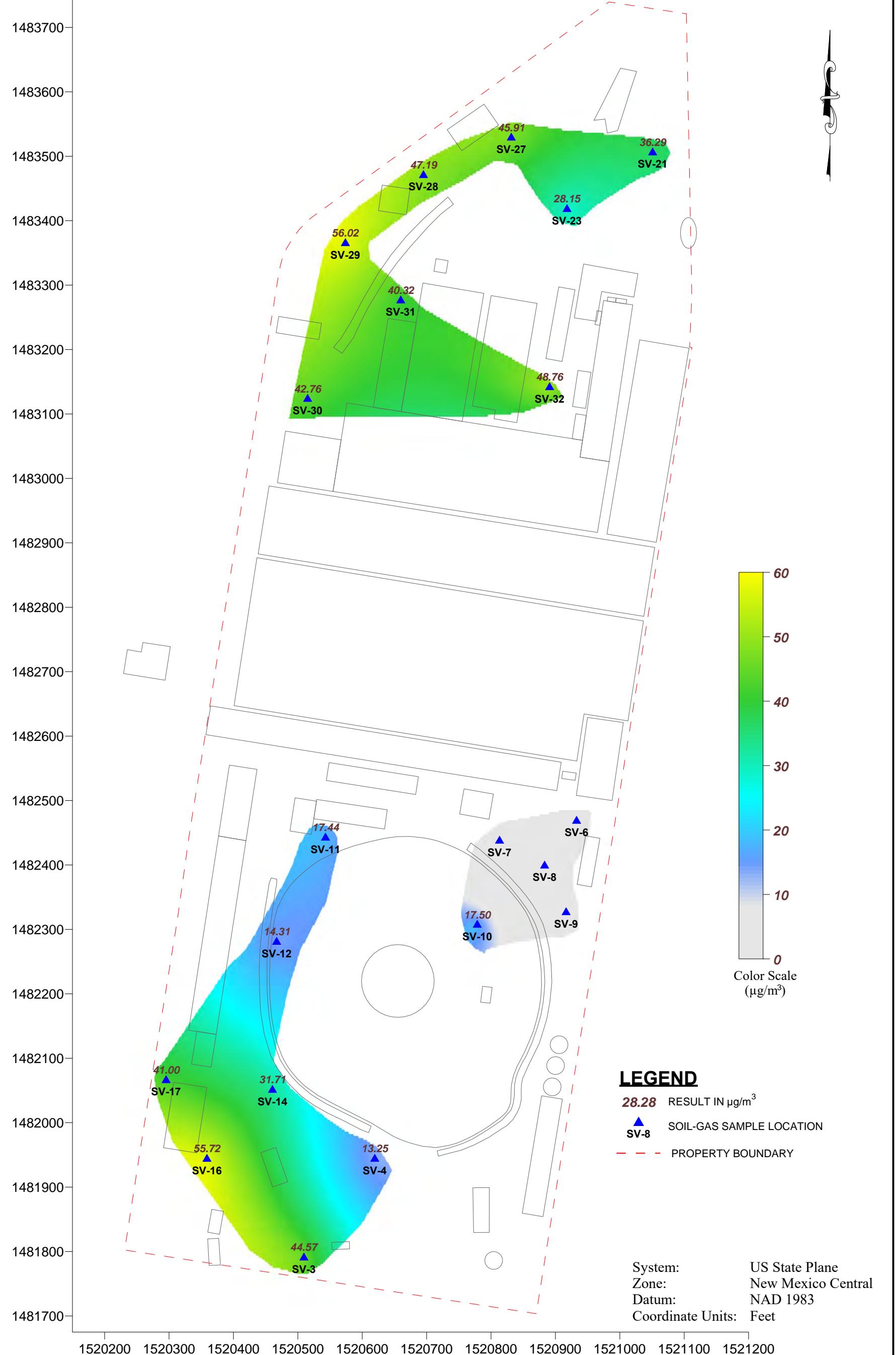
Client Contact Information		Project Manager: Joe Tracy, jtracy@intera.com		BEACON Project No.: 3588B	
Company:	Tierra	Phone:	505-246-1600	Client PO No.	
Address:	6000 Upton Blvd NE, Ste. 220	Project Name:	Abigail	Analysis Turnaround Time	
City/State/Zip:	Albuquerque, NM 87100	Location:	Albuquerque, NM	<input checked="" type="checkbox"/> Normal	
Phone:	505-246-1600	Sampler Name(s):	W.H. Sophie, Frank Becker, Jeff Shad	<input type="checkbox"/> Rush (Specify):	days
Location ID	Tube ID Number	Pump ID Number	Start Time	Stop Time	Temp. (F)
SV-08-08	110234589	Tierra 2	11/3/16 1100	11/3/16 1105	200
SV-08-08	1101002	Tierra 2	11/3/16 1100	11/3/16 1105	200
SV-08-01	601649999	Tierra 1	11/3/16 1126	11/3/16 1131	200
SV-08-01	HQ 233606	Tierra 4	11/3/16 1126	11/3/16 1131	200
SV-05-01	1100817	Tierra 1	11/3/16 1317	11/3/16 1322	200
SV-05-01	HQ 234865	Tierra 1	11/3/16 1317	11/3/16 1322	200
SV-05-02	1049459	Tierra 1	11/3/16 1337	11/3/16 1342	200
SV-05-02	1049361	Tierra 1	11/3/16 1337	11/3/16 1342	200
SV-05-03	1049520	Tierra 1	11/3/16 1405	11/3/16 1410	200
SV-05-03	1049196	Tierra 1	11/3/16 1405	11/3/16 1410	200
Ambient Conditions When Sampling					
Temperature (F)	Barometric Pressure (mmHg)	Date	Cal. Tube ID:	Pump(s) Calibration and Flow Rate Check:	
Start			Pre-Survey	Date	Lab or Field
Stop			Post-Survey	Date	Flow Meter Model/Serial #
Special Notes/Instructions:					
Install date is date you ran set. Run set idle for 24-hr prior to sampling. Retrieve date is sampling date. Sample for 5 min at 200 cc/min.					
Relinquished by: (signature)	Date/Time: 11/17/2016 1137		Received by: <i>Jeffrey S. Benner, Jr.</i> (signature)	Date/Time: 11/18/2016 14:28 h	
Relinquished by: (signature)	Date/Time:		Received by: <i>Jeffrey S. Benner, Jr.</i> (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:		Received by: <i>Jeffrey S. Benner, Jr.</i> (signature)	Date/Time:	
Lab Use Only	Courier Name: Fed Ex	Shipment Condition: good	Sample Delivery Group ID: 1	Custody Seal Intact: Yes	Custody Seal No.: None

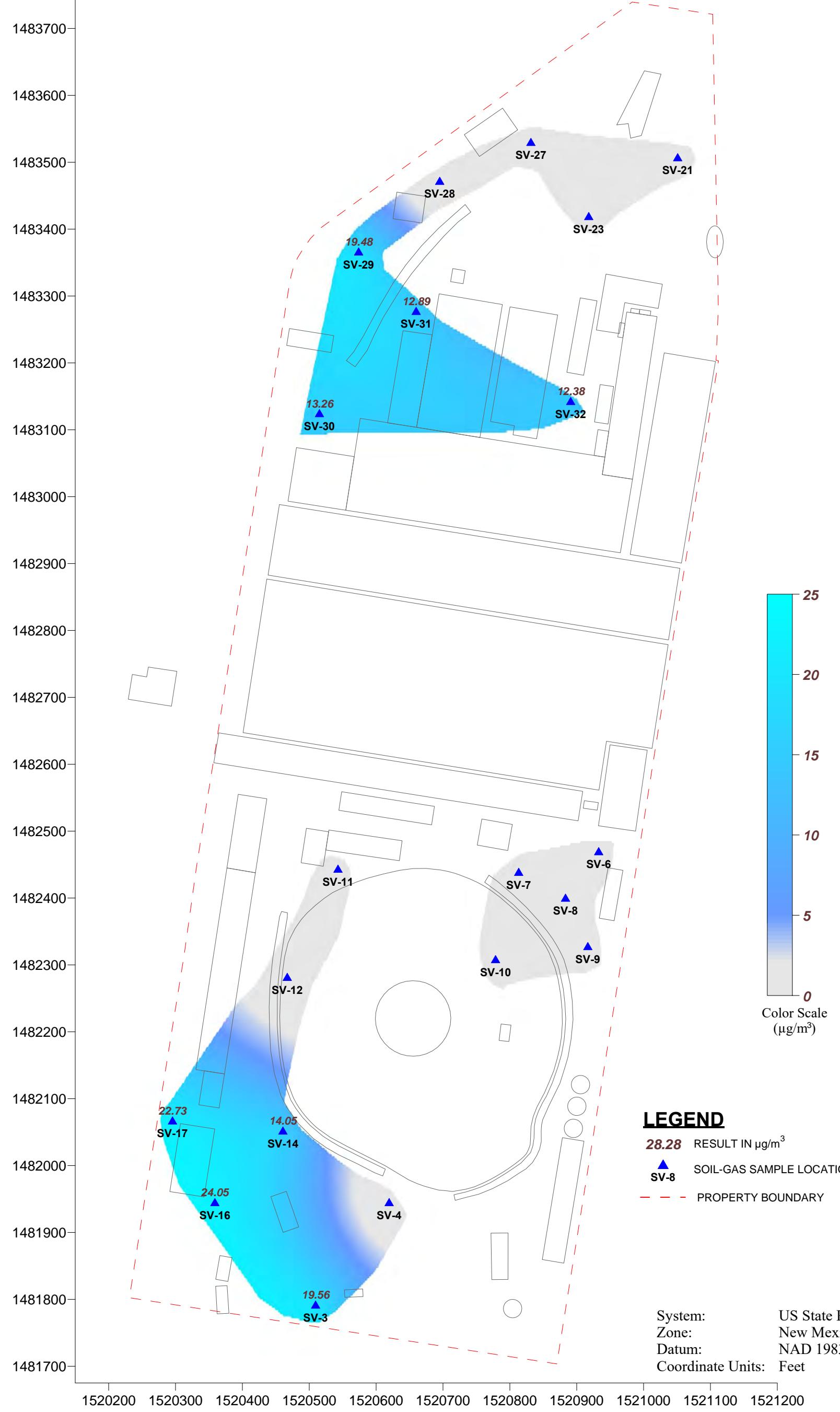


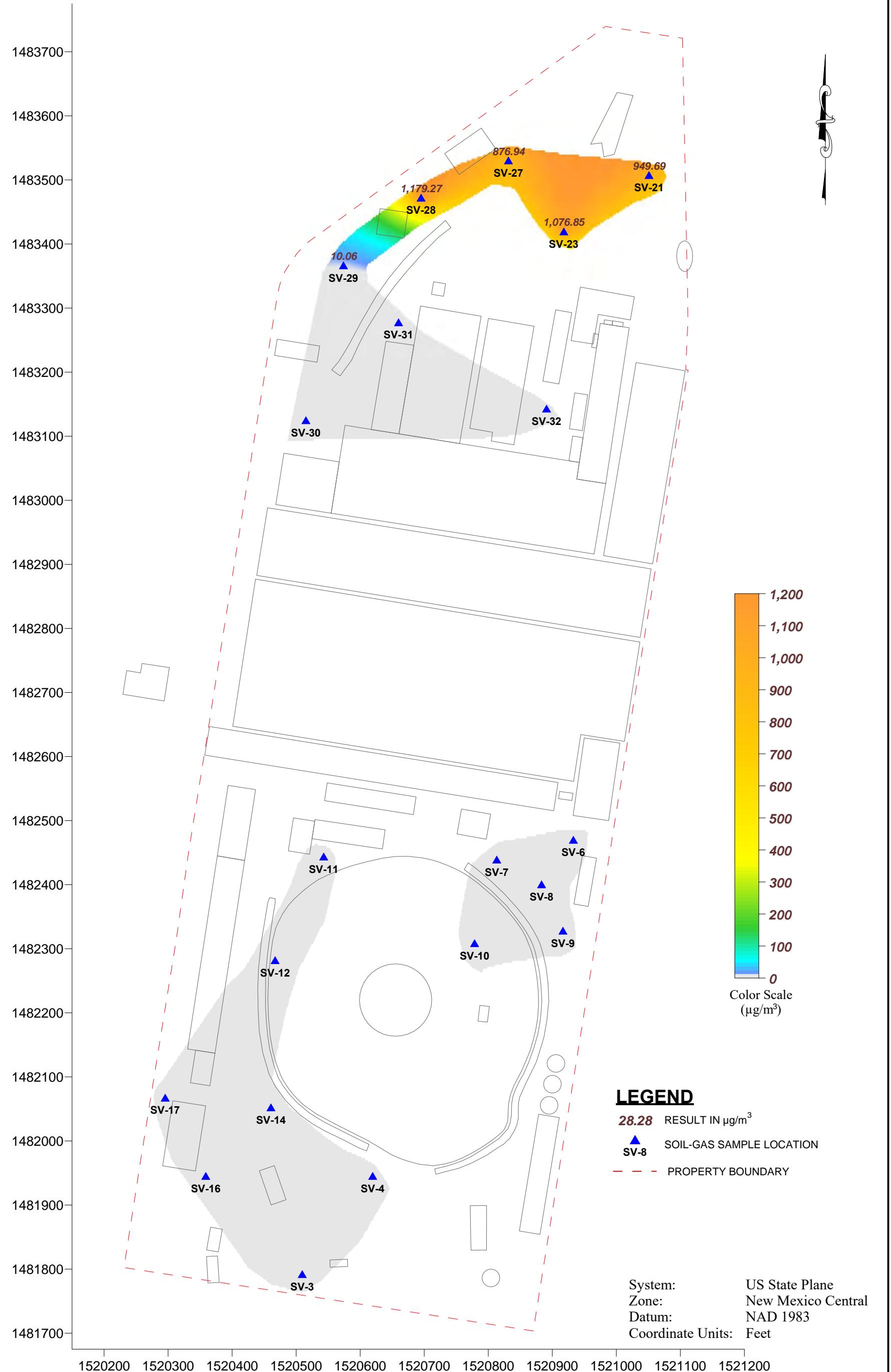
CHAIN-OFF-CUSTODY RECORD

2203A Commerce Road, Suite 1
Forest Hill, MD 21050
410-838-8780 / fax: 410-838-8740









Appendix D

Calculation of Vapor Intrusion Screening Levels for Evaluation of Soil Gas Vapor Concerns at the City of Albuquerque Rail Yards, Albuquerque, Bernalillo County, New Mexico

**CALCULATION OF VAPOR INTRUSION SCREENING LEVELS (VISLs) FOR EVALUATION
OF SOIL GAS VAPOR CONCERNS AT THE CITY OF ALBUQUERQUE RAIL YARDS,
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO**

INTERA Incorporated (INTERA) calculated Vapor Intrusion Screening Levels (VISLs) using the U.S. Environmental Protection Agency (EPA) VISLs Calculator for detected constituents where the New Mexico Environmental Department (NMED) does not have established VISLs. These VISLs were calculated in order to evaluate soil vapor data collected at the City of Albuquerque (COA) Rail Yards, Albuquerque, Bernalillo County, New Mexico (Site). A list of VISLs calculated by INTERA using the EPA VISL Calculator for the Site are presented in the following table:

Table 1
EPA VISLs calculated for the COA Rail Yards, Albuquerque, New Mexico

Chemical of Potential Concern (COPC)	CAS Number	EPA VISL ($\mu\text{g}/\text{m}^3$)
1,2,4-Trimethylbenzene	95-63-6	240
1,4-Dioxane	123-91-1	190

These VISLs represent target sub-slab and exterior soil gas concentrations for Site chemicals of potential concern (COPCs) and were calculated using default exposure parameters and factors altered to reflect Site-specific parameter options as provided in EPA's VISL Calculator (Version 3.5.1). The VISL Calculator incorporates basic guidance documented in EPA's VISL Calculator User's Guide (EPA, 2014) and is available for download at the following EPA website: <https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-levels-visls>. A brief description of default exposure parameters and factors used to in the calculation of EPA VISLs as well as the rationale for Site-specific inputs utilized by INTERA in the VISL Calculator are discussed further below.

As documented in the EPA VISL Calculator User's Guide (EPA, 2014), VISLs are calculated using recommended approaches in existing guidance and reflect target EPA indoor air concentrations modified to incorporate empirically-based conservative "generic" attenuation factors that reflect generally reasonable worst-case conditions. Standard default (generic) VISLs are based on default exposure parameters and factors that represent Reasonable Maximum Exposure [RME] conditions for long-term/chronic exposures and incorporate the latest toxicity values in the Regional Screening Levels (RSL) tables (EPA, 2014). The EPA RSL tables were last updated in May 2016 and are available for download at the following EPA website: <http://www.epa.gov/region9/superfund/prg/>.

When using the VISL Calculator, standard default VISLs can be adjusted slightly to reflect the following Site-specific criteria: (1) applicable site exposure scenario (either residential or commercial), (2) target risk for carcinogens, (3) target hazard quotient for non-carcinogens, and (4) average in-situ ground water temperature (stabilized temperature measured during well purging prior to ground water sampling).

INTERA inputted the following site specific information to calculate site-specific VISLs for the Site.

- (1) Exposure scenario: Residential, and
- (2) Total Target Carcinogenic Risk: 10E-5

These parameters were considered most appropriate to represent Site conditions reflective of future decision-making needs: Assigning a less conservative total target carcinogenic risk of 10E-5 is standard practice for assessing carcinogenic risk within the State of New Mexico as described in the New Mexico Environment Department (NMED) document, Risk Assessment Guidance for Site Investigations and Remediation (NMED, 2015). All other parameters used to calculate VISLs for the Site were reflective of default values, listed for completeness, below:

- Target Hazard Quotient for Non-carcinogens: 1
- Average Ground Water Temperature: 25 (degrees C)
- Default Inhalation Pathway Exposure Parameters (RME) for the Residential Exposure Scenario:
 - Averaging time for carcinogens: 70 (yrs)
 - Averaging time for non-carcinogens: 26 (yrs)
 - Exposure duration: 26 (yrs)
 - Exposure frequency: 350 (days/yr)
 - Exposure time: 24 (hr/day)
- Generic Attenuation Factors:
 - Groundwater Source for Vapors: 0.001
 - Sub-Slab and Exterior Soil Gas Source for Vapors: 0.03
- Inhalation Unit Risk for Trichloroethylene (TCE) for the Residential Exposure Scenario:
 - Mutagenic component: 1.00E-6
 - Non-mutagenic component: 3.10E-6
- Mutagenic-mode-of-action (MMOA) adjustment factor: 72
- Exposure Durations and Age-Dependent Adjustment Factors for MMOAs:
 - 0 to 2 years: 10
 - 2 to 6 years: 3
 - 6 to 16 years: 3
 - 16-26 years: 1

These default parameters are exposure factors based on EPA's Risk Assessment Guidance for Superfund [RAGS] (EPA, 1989) or EPA vapor intrusion guidance. In general, EPA discourages the alteration of these default parameters (EPA, 2014).

Several COPCs identified for the Site were unable to have an EPA VISL calculated for the following reasons:

- (1) 1,3-Dichlorobenzene (CAS # 541-73-1): no information for this chemical is currently listed
- (2) 2-Methylnaphthalene (CAS # 91-57-6): no inhalation toxicity information for this chemical is currently available
- (3) 1,3,5-Trimethylbenzene (CAS # 108-67-8): no inhalation toxicity information for this chemical is currently available.

REFERENCES

Environmental Protection Agency (EPA). 2014. Vapor Intrusion Screening Level (VISL) Calculator User's Guide. Office of Solid Waste and Emergency Response Office of Superfund Remediation and Technology Innovation. May.

- _____. 2016. EPA VISL Calculator from
<https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-levels-visls>. Updated May.
- _____. 1989. Risk Assessment Guidance for Superfund Volume I Human Health Evaluation Manual (Part A). Interim Final. Office of Emergency and Remedial Response Document EPA/540/1-89/002. December.
- New Mexico Environment Department. 2015. Risk Assessment Guidance for Site Investigations and Remediation. July 2015.

Appendix E
Contaminant Site Maps – All Parcels



Legend

SSL Exceedance

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab
- Test Pit

● 2016 Soil Boring - Soil Sample >10 ft bgs

□ Parcel Boundary

Detect below SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect; Detection Limit exceeds SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

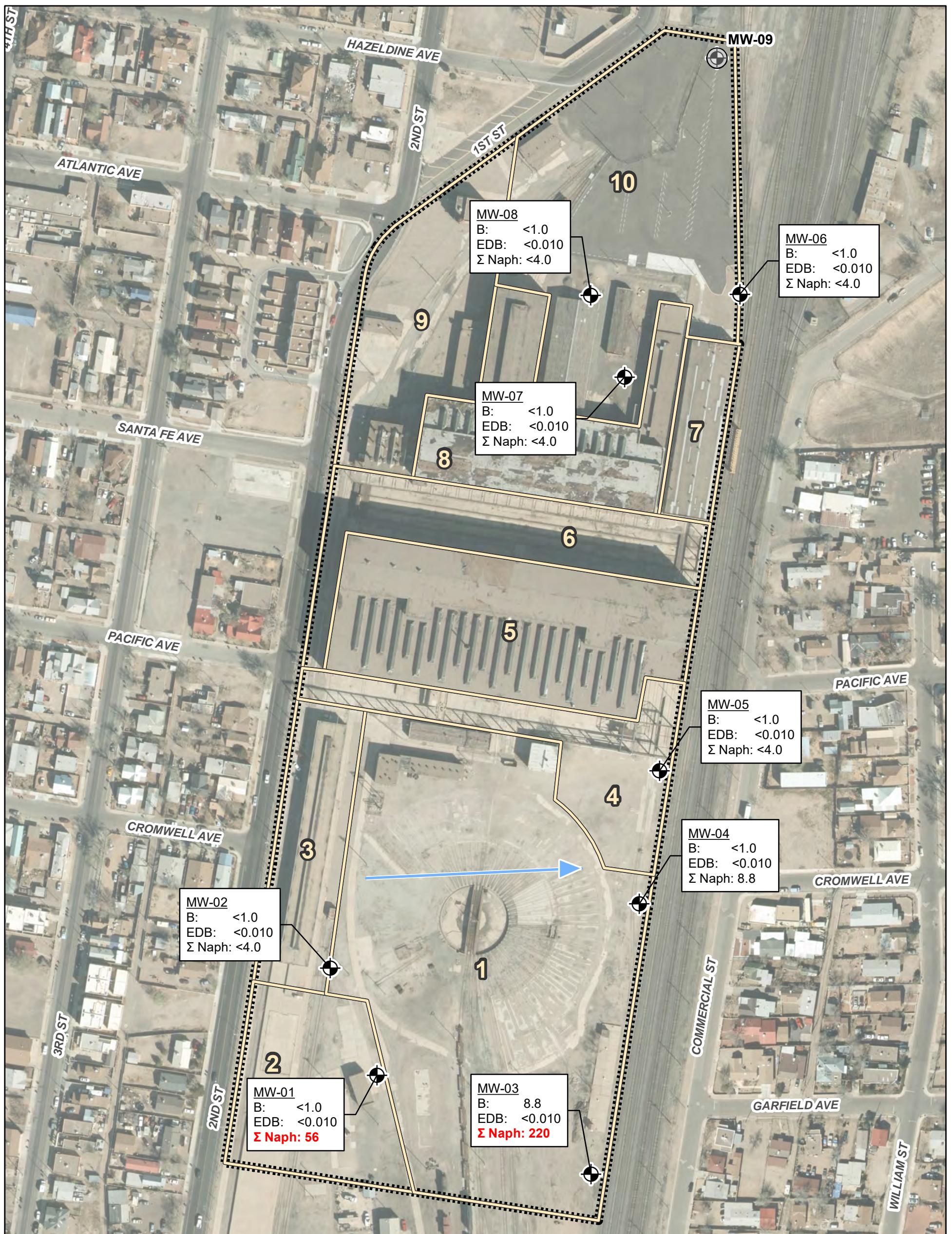


160 80 0 160

Feet

**Construction Worker SSL Exceedances
(0-10 ft bgs), Manganese
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico**

Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

● Monitoring Well; not located

● Monitoring Well

→ Estimated Groundwater Flow Direction

B= Benzene
EDB = 1,2-dibromoethane
 Σ Naph = Naphthalene + 1,Methylnaphthalene + 2, Methylnaphthalene

■ Property Boundary

□ Parcel Boundary

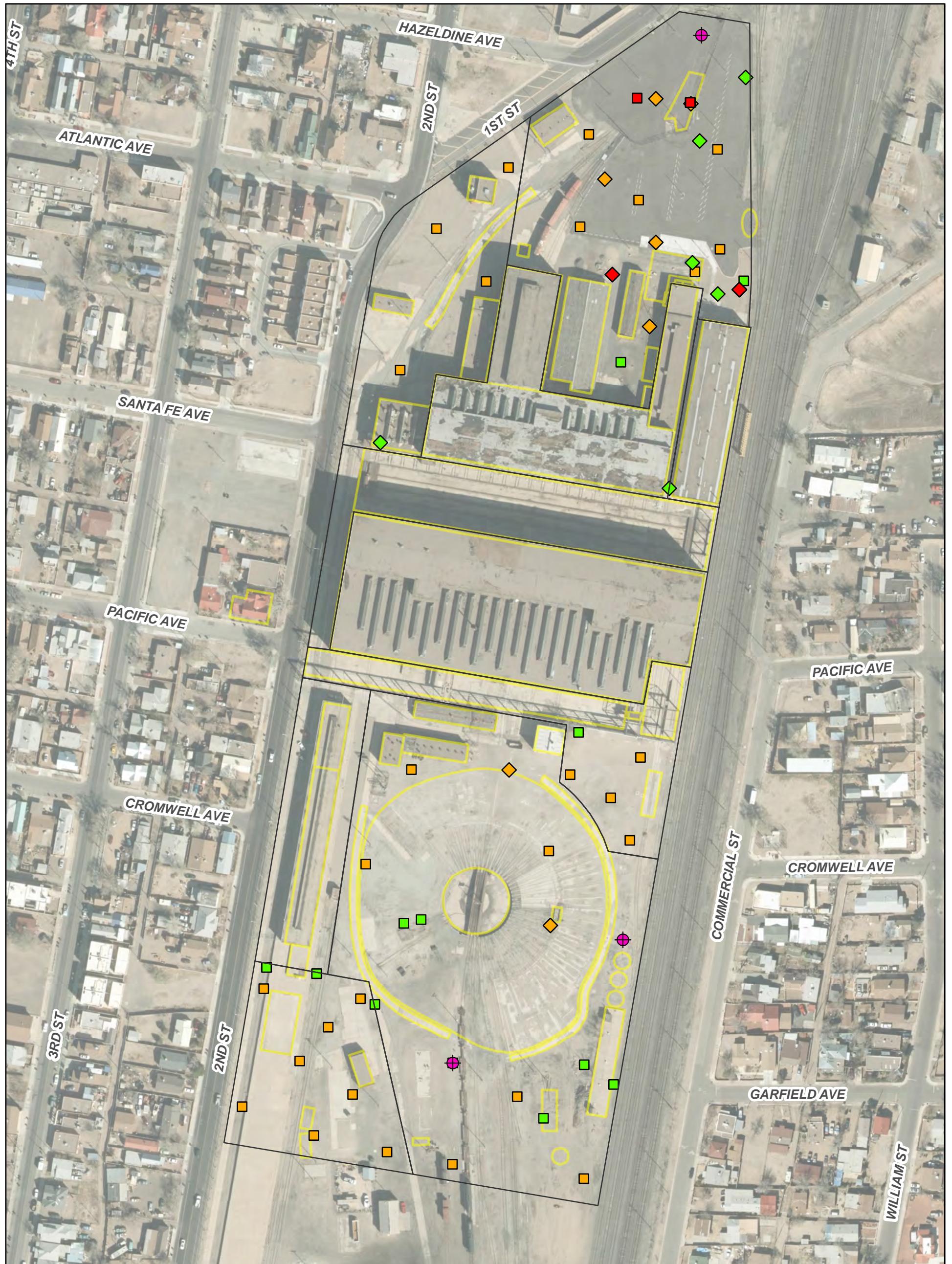
Well ID

Analyte: Results in $\mu\text{g/L}$ (micrograms per liter),
Red/Bold indicates value or laboratory reporting limit in excess of the NMWQCC standards.



160 80 0 160
Feet

**Distribution of Dissolved-Phase Contaminants,
November 4, 2016**
Additional Characterization of
Groundwater Report, City of Albuquerque Rail Yards,
Albuquerque, Bernalillo County, New Mexico



Legend

SSL Exceedance

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab
- Test Pit

● 2016 Soil Boring - Soil Sample >10 ft bgs

□ Parcel Boundary

Detect below SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect; Detection Limit exceeds SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

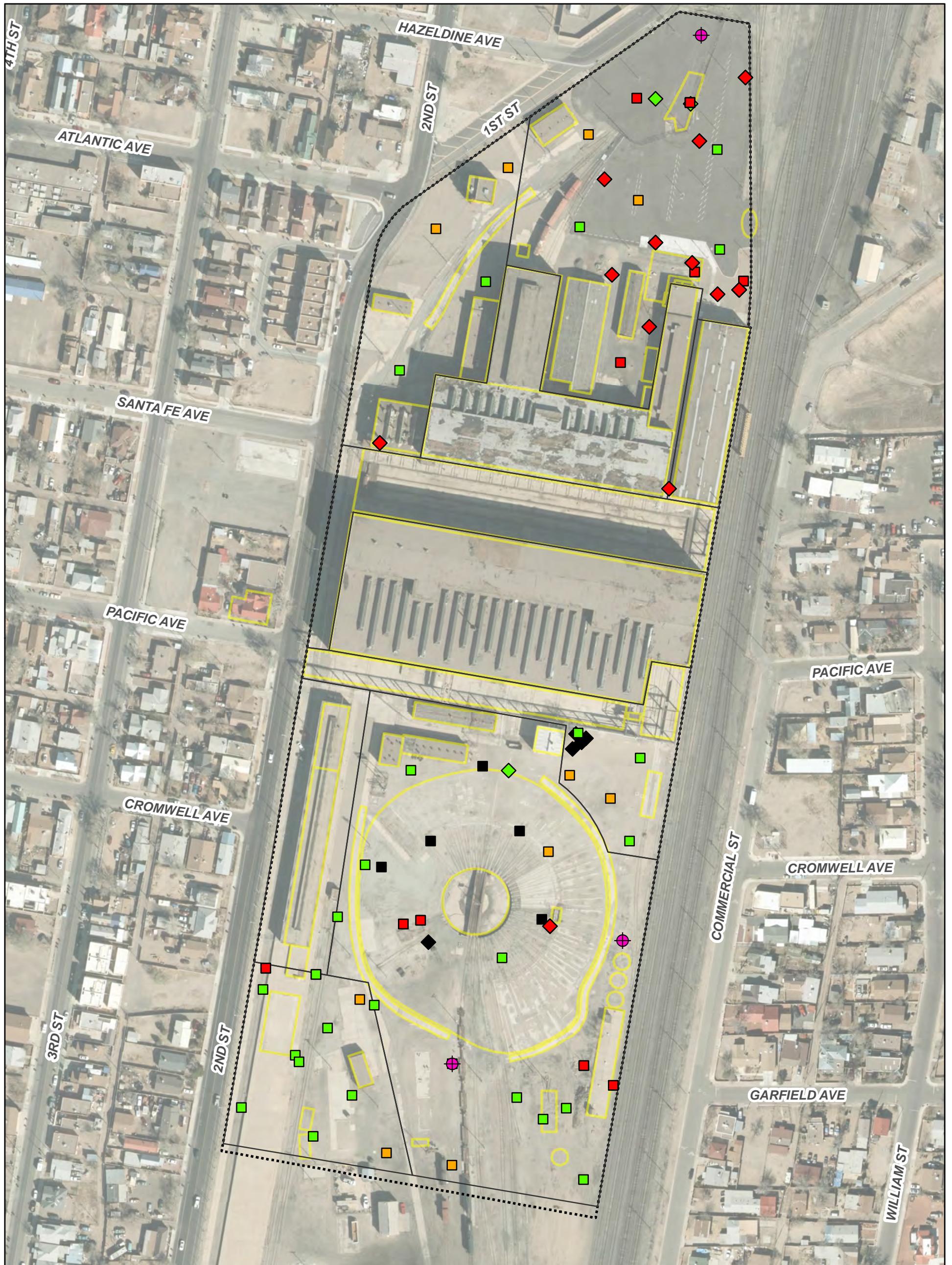


160 80 0 160

Feet

Residential SSL Exceedances
(0-10 ft bgs), Antimony
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

Note: Some sample depths include a portion greater than
10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

SSL Exceedance

- Soil Boring
- ◆ Surface Soil

Non-Detect

- Soil Boring
- ◇ Surface Soil

Detect below SSL

- Soil Boring
- ◆ Surface Soil

Non-Detect; Detection Limit exceeds SSL

- Soil Boring
- ◆ Surface Soil

● 2016 Soil Boring - Soil Sample
>10 ft bgs

□ Parcel Boundary

··· Property Boundary



160 80 0 160
Feet

**Residential SSL Exceedances
(0-10 ft bgs), Arsenic
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico**

Note: Some sample depths include a portion greater than
10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

SSL Exceedance

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab
- Test Pit

● 2016 Soil Boring - Soil Sample >10 ft bgs

□ Parcel Boundary

Detect below SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect; Detection Limit exceeds SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

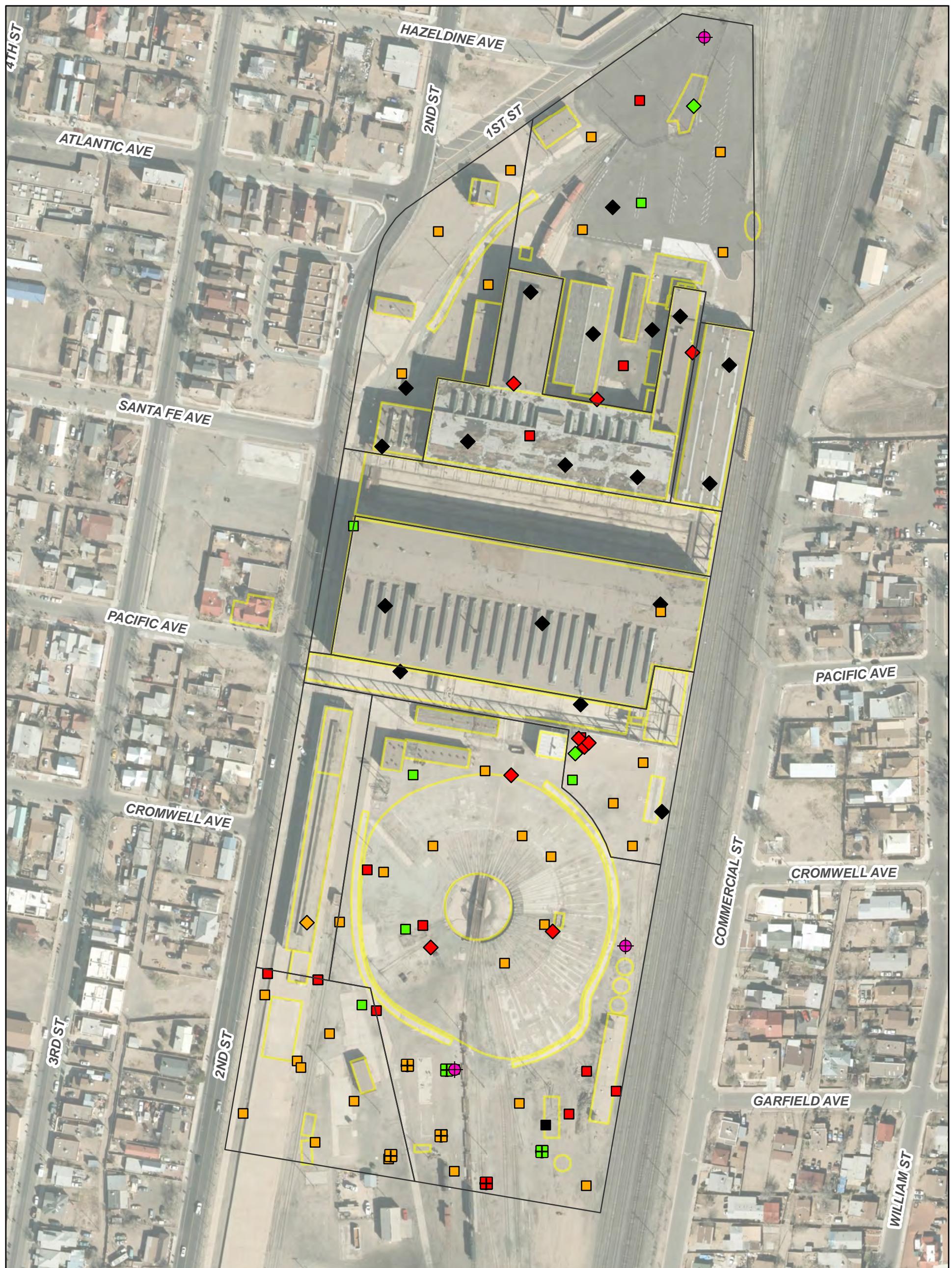


160 80 0 160

Feet

Residential SSL Exceedances
(0-10 ft bgs), Benzo(a)anthracene
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

Note: Some sample depths include a portion greater than
10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

SSL Exceedance

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab
- Test Pit

● 2016 Soil Boring - Soil Sample >10 ft bgs

□ Parcel Boundary

Detect below SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect; Detection Limit exceeds SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit



160 80 0 160

Feet

Residential SSL Exceedances
(0-10 ft bgs), Benzo(a)pyrene
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

Note: Some sample depths include a portion greater than
10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

SSL Exceedance

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab
- Test Pit

● 2016 Soil Boring - Soil Sample >10 ft bgs

□ Parcel Boundary

Detect below SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect; Detection Limit exceeds SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit



160 80 0 160

Feet

Residential SSL Exceedances
(0-10 ft bgs), Benzo(b)fluoranthene
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

Note: Some sample depths include a portion greater than
10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

SSL Exceedance

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab
- Test Pit

● 2016 Soil Boring - Soil Sample >10 ft bgs

□ Parcel Boundary

Detect below SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect; Detection Limit exceeds SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

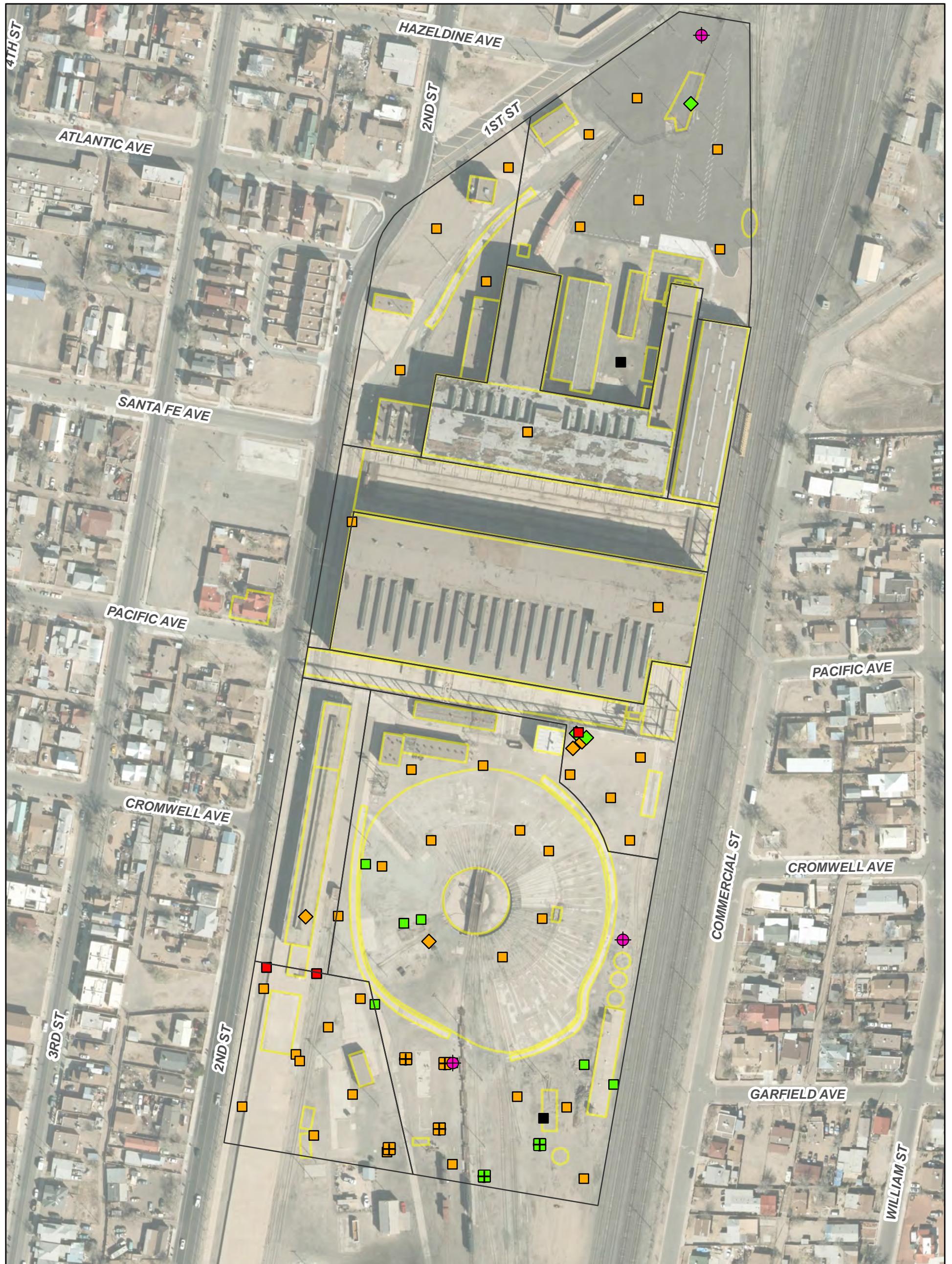


160 80 0 160

Feet

**Residential SSL Exceedances
(0-10 ft bgs), Chromium
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico**

Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

SSL Exceedance

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab
- Test Pit

● 2016 Soil Boring - Soil Sample >10 ft bgs

□ Parcel Boundary

Detect below SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect; Detection Limit exceeds SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit



160 80 0 160

Feet

Residential SSL Exceedances
(0-10 ft bgs), Dibenz(a,h)anthracene
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

Note: Some sample depths include a portion greater than
10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

SSL Exceedance

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab
- Test Pit

● 2016 Soil Boring - Soil Sample >10 ft bgs

□ Parcel Boundary

Detect below SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect; Detection Limit exceeds SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit



160 80 0 160

Feet

Residential SSL Exceedances
(0-10 ft bgs), Indeno(1,2,3-cd)pyrene
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

Note: Some sample depths include a portion greater than
10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

SSL Exceedance

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab
- Test Pit

● 2016 Soil Boring - Soil Sample >10 ft bgs

□ Parcel Boundary

Detect below SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect; Detection Limit exceeds SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit



160 80 0 160

Feet

**Residential SSL Exceedances
(0-10 ft bgs), Iron
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico**

Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

SSL Exceedance

- Soil Boring
- ◆ Surface Soil

Detect below SSL

- Soil Boring
- ◆ Surface Soil

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab
- Test Pit

Non-Detect; Detection Limit exceeds SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

● 2016 Soil Boring - Soil Sample >10 ft bgs

□ Parcel Boundary



160 80 0 160

Feet

**Residential SSL Exceedances
(0-10 ft bgs), Lead
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico**

Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

SSL Exceedance

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect

- Soil Boring
- ◆ Surface Soil; Subslab
- Test Pit

● 2016 Soil Boring - Soil Sample >10 ft bgs

□ Parcel Boundary

Detect below SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit

Non-Detect; Detection Limit exceeds SSL

- Soil Boring
- ◆ Surface Soil
- Test Pit



160 80 0 160

Feet

**Residential SSL Exceedances
(0-10 ft bgs), Thallium
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico**

Note: Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



Legend

SSL Exceedance

- Soil Boring
- ◆ Surface Soil
- TP

Non-Detect

- GWMW
- Soil Boring
- ◇ Surface Soil; Subslab

● 2016 Soil Boring - Soil Sample >10 ft bgs

□ Parcel Boundary

Detect below SSL

- Soil Boring
- ◆ Surface Soil
- TP

Non-Detect; Detection Limit exceeds SSL

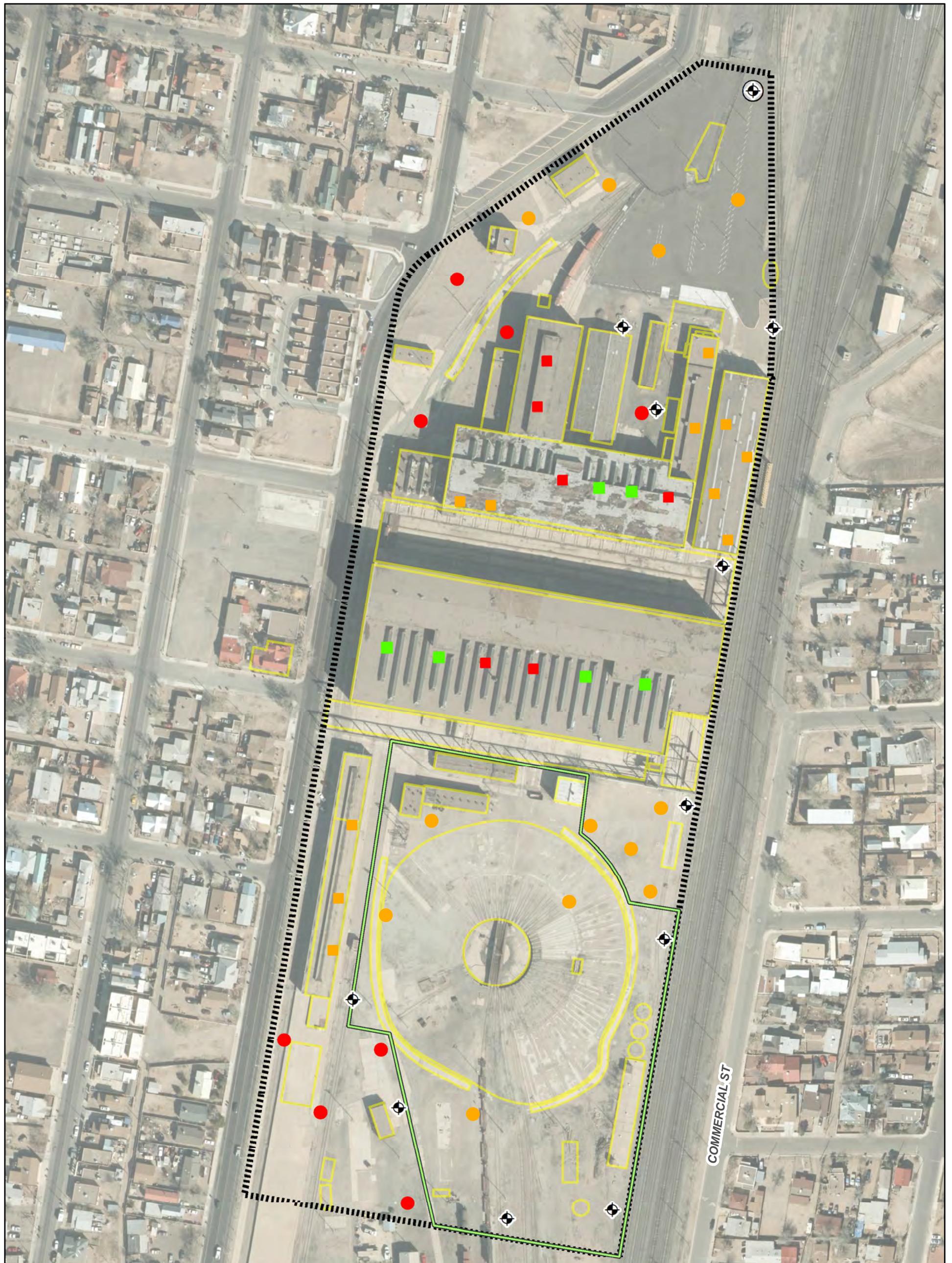
- Soil Boring
- ◆ Surface Soil
- Test Pit

Note: TPH DRO + MRO is the summation of TPH DRO and TPH MRO, if non-detect than the laboratory reporting limit was used. Older TPH results from are reported as Total TPH. Some sample depths include a portion greater than 10 ft bgs (i.e., sample interval = 8 - 12 ft bgs).
SSL: Soil Screening Levels (NMED, 2015)



160 80 0 160
Feet

Residential SSL Exceedances (0-10 ft bgs), TPH DRO + MRO, TPH Additional Characterization, Voluntary Remediation Program Activities, Albuquerque Rail Yards, Albuquerque, Bernalillo County, New Mexico



Legend

VISL Exceedence

- Soil Gas Sample
- Sub-Slab Soil Vapor Sample

Non-Detect

- Soil Gas Sample
- Sub-Slab Soil Vapor Sample

Detect below VISL

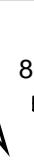
- Sub-Slab Soil Vapor Sample

● Monitoring Well

● Monitoring Well; not located

■ Parcel 1 Boundary

■ Property Boundary



80 40 0 80

Feet

Naphthalene Soil Gas and Sub-Slab
Soil Vapor Residential VISL Exceedance
Additional Characterization,
Voluntary Remediation Program Activities,
Albuquerque Rail Yards, Albuquerque,
Bernalillo County, New Mexico

Appendix F
Asbestos and Lead-Based Paint Report(s)



DC Environmental
Consulting and Training Services

ASBESTOS AND LEAD BASED PAINT SURVEY
City of Albuquerque
Railyard Crane Runway Parcel 4
Albuquerque, NM



PREPARED FOR:
Intera, Inc.
6000 Uptown Blvd, Suite 220
Albuquerque, New Mexico 87110

PREPARED BY:
DC Environmental
PO Box 9315
Albuquerque, New Mexico 87119

November 29, 2016
Project No. 16-174



DC Environmental
Consulting and Training Services

November 29, 2016
Project No. 16-174

Mr. Joe Tracy
Intera Inc.
6000 Uptown Boulevard, NE
Suite 200
Albuquerque, NM 87110

Subject: Asbestos and Lead Based Paint inspection of the Crane Runway Parcel 4 – City of Albuquerque Railyard

Dear Mr. Joe Tracy;

In accordance with our proposal, DC Environmental has performed asbestos and lead based paint inspections of the above-referenced facility, located at the City of Albuquerque Railyard, 1100 2nd St SW, Albuquerque, New Mexico. The attached report presents our methodology, findings, opinions, and recommendations regarding the survey.

Lead Containing materials were identified at the Crane Runway. Asbestos-containing materials were not identified at the Crane Runway.

We appreciate the opportunity to be of service to you on this project. Should you have any questions regarding this report, please contact the undersigned at your convenience.

Sincerely,
ACME ENVIRONMENTAL INDUSTRIAL HYGIENE, INC.
dba DC Environmental

David Charlesworth

Karen Dremann

J. David Charlesworth,
Certified Industrial Hygienist

Karen Dremann
Senior Scientist

Distribution: (2) Addressee

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2. PURPOSE AND SCOPE OF SERVICES	5
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Table

Table 1. Asbestos Lab Results

Appendices

Appendix A. Asbestos Laboratory Analysis Results

Appendix B. XRF Lead Measurements Table

Appendix C. Asbestos and LBP Data

Appendix D. Photograph Log

Appendix E. Certifications

EXECUTIVE SUMMARY

On October 27, 2016, DC Environmental performed an inspection of the Crane Runway located at the City of Albuquerque Railyard on 2nd Street in Albuquerque, New Mexico. The inspection was conducted in a response to a request to identify materials that may be impacted during future renovation or demolition activities. Previous sampling and analysis of building materials for lead had been conducted at the property by Innovar in 2011 and Rhoades in 2013. Previous sampling for asbestos had been conducted by Terracon in 2005, Innovar in 2011 and Rhoades in 2013 (See Appendix C). The focus of our inspection was to verify and determine the presence, location and quantity of asbestos remaining within the facility, and to establish the basis for the presence of lead containing finishes within the structure. The space is being evaluated for a confidential client and the concern is that existing materials may contain asbestos and lead in the finishes.

The inspection design was to conduct a room-by-room (or surface-by-surface) investigation for asbestos-containing building materials. Access the functional spaces, where appropriate; evaluate the exterior surfaces; and sample materials suspect for asbestos associated with the Crane Runway.

Asbestos-containing building materials are those containing greater than one percent asbestos as determined by polarized light microscopy. Asbestos-containing materials **were not** detected in the building materials sampled.

Lead-based paint is defined as coatings containing surface area lead of 1.0 milligrams per square centimeter (1.0 mg/cm^2) when evaluated by X-Ray Fluorescence. Lead-based paint is further defined if laboratory analysis determines the lead content to be one-half (0.5 %) percent by weight or greater. The lead inspection of the facility was conducted using an X-Ray Fluorescence (XRF) handheld instrument of select components or areas. The inspector did identify painted surfaces with excess lead above the stated regulatory limit. Lead-based paint surfaces included: **silver paint on metal column and bracing and yellow paint on metal pipe.**

Lead-containing materials are those with detectable levels of lead in the materials however not at levels above 1.0 mg/cm^2 . Lead containing materials **were** identified at the Crane Runway (see Appendix B XRF Lead Measurements). Individuals bidding for work should be aware of the presence of lead when performing demolition and renovation activities involving these items.

1. INTRODUCTION

In accordance with our proposal, DC Environmental has performed an investigation of the Crane Runway located at the City of Albuquerque Railyard in Albuquerque, New Mexico.

The inspection was conducted in a response to a request to have building materials evaluated for future renovation or demolition activities. The focus of our inspection was to determine the presence, location and quantity of asbestos and lead based paint present at the structure. The building is being inspected for a confidential client and the concern is that existing materials may contain asbestos in building materials and lead in the painted finishes.

This report has been prepared in accordance with generally accepted environmental science and engineering practices. This report is based upon conditions at the subject building at the time of the sampling activities and provides documentation of our findings and recommendations.

2. PURPOSE AND SCOPE OF SERVICES

The inspection design was to conduct a room-by-room (or surface-by-surface) investigation and assess the facility for the presence of asbestos-containing building materials and lead-based paint. The inspection included a quantitative determination of the asbestos and lead content within the structure.

The objective of this inspection was to perform the requisite sampling and present the findings along with any recommendations. The services performed by DC Environmental are outlined below.

- A reconnaissance of the area was conducted by Mr. Michael Nieman and Mr. David Plante. The investigators are accredited Asbestos Building Inspectors. Mr. Nieman is a Certified Lead Inspector.
- Sampling was conducted using several different types of inspection tools and laboratory techniques including Polarized Light Microscopy and X-Ray Fluorescence.
- Report preparation summarizing our sampling methods and laboratory analysis are included. This report further details our conclusions and recommendations for the project.

3. SITE DESCRIPTION

The subject site consists of a steel structure referred to as the Crane Runway.

The Crane Runway

At the Railyard, the Crane Runway runs east to west at the south side of the Machine Shop. The steel structure supports a 15 ton elevated crane. The majority of the structure is silver painted steel. There is a concrete foundation. The concrete foundation was patched with a plaster infill material. A black tar coating was also present and suspect for asbestos.

4. ACTIVITIES

DC Environmental conducted an asbestos-containing building materials and lead-based paint investigation on October 27, 2016 of the Crane Runway. Analysis of the painted surfaces incorporated the use of an X-Ray Fluorescence Device. The Radiation Monitoring Device (RMD) LPA-1 X-Ray Fluorescence device was used to measure the lead content of surface coatings on representative homogenous components. Multiple XRF readings were recorded.

The site sampling activities are described below.

Asbestos-Containing Building Materials

Mr. Michael Nieman, Mr. Steven Gutierrez and Mr. David Plante conducted a visual inspection for asbestos-containing building materials at the above referenced building. Mr. Gutierrez collected six (6) samples that were tested for asbestos using Polarized Light Microscopy and stereomicroscopy bulk asbestos analysis. Analysis was conducted by Crisp Analytical, LLC of Carrollton, Texas. Crisp Analytical is an accredited laboratory and recognized by the National Voluntary Laboratory Accreditation Program. Based upon the samples tested, none of the

materials sampled were identified as asbestos-containing material.

Previous asbestos surveys were also conducted in 2005, 2011 and 2013 (See Appendix C). Asbestos sample results for the Crane Runway were not identified in the previous surveys.

The Environmental Protection Agency has established terminology regarding asbestos and specifically asbestos-containing building materials. Material which is friable are those materials that can be crushed, crumbled or reduced to powder by hand pressure. Non-friable materials are further characterized as Category I Non-Friable or Category II Non-Friable. Category I Non Friable includes four specific items: Packings, Gaskets, Resilient Flooring and Asphalt Roofing. Category II Non-Friable is everything else which cannot be crumbled or pulverized by hand pressure. These items include materials of drywall systems, plasters, asbestos-containing cements (Transite ®) and other materials declared non-friable by the asbestos inspector.

The EPA then clarifies that certain materials are Regulated Asbestos Containing Materials (RACM) and these include the following four designations:

- Friable materials;
- Category I Non-Friable Materials which have become friable;
- Category I Non-Friable Materials which have been subject to sanding, grinding, cutting and abrading; and
- Category II Non-friable materials that will be, or have been, subject to force during demolition or renovation.

Regulated Asbestos Containing Materials were **not** present within the structure.

Lead Based Paint Inspection

The presence of lead based paint was assessed in substantial compliance with the Housing and Urban Development guidelines. DC Environmental conducted a lead-based surface coating screening survey of the interior and exterior of the property to generally identify building components coated with lead. The survey consisted of testing the lead concentrations of each of the accessible surfaces. Previous lead based paint surveys were also conducted in 2011 and 2013 (See Appendix C). Lead based paint survey results for the Crane Runway were not identified in the previous surveys.

To complete the survey, an X-Ray Fluorescence device was used to perform the lead based paint inspection. The Radiation Monitoring Device (RMD) LPA-1 X-Ray Fluorescence device is capable of detecting lead in lead-based paint. The determination of lead in paint is defined as a surface content of at least 1.0 milligrams per square centimeter. If the readings were between the 0.9 to 1.0 mg/cm² range, then the readings are declared as either lead-based paint or lead-containing materials and sampling is recommended.

Surfaces that were tested with the XRF device included, but were not limited to the following: structural steel, crane components, gussets and framing.

The XRF device recorded readings did indicate lead-based paint on the structure and in coatings

and finishes. Please refer to the XRF readings in the appendix to this document.

5. ANALYSES AND RESULTS

The results of samples and analysis are presented in the following tables. Copies of the laboratory analytical results are included in the appendix to this document.

5.1 Table Asbestos Sample Analysis

Sample #	Crane Runway Analyst physical description of subsample	Asbestos Type/calibrated/Visual estimate percent
16-174-100	Crane Runway Tar Coating	ND
16-174-101	Crane Runway Tar Coating	ND
16-174-102	Crane Runway Tar Coating	ND
16-174-103	Crane Runway Infill	ND
16-174-104	Crane Runway Infill	ND
16-174-105	Crane Runway Infill	ND

ND None Detect

6. FINDINGS AND CONCLUSIONS

The findings of this inspection are based on our visual observations and analysis of the measurements collected from the facility. Our findings are presented below.

6.1 Asbestos Sampling Analysis

The current visual inspection and sampling of building materials revealed no previously undocumented sources of asbestos-containing building materials. Asbestos-containing building materials were not identified in the Crane Runway.

6.2 Lead Based Paint Analysis

DC Environmental conducted a lead-based surface coating inspection of the property to generally identify building components coated with or containing lead. The survey consisted of testing the lead concentrations of over the majority of the Crane Runway surfaces.

During the survey, testing combinations were sampled by X-Ray Fluorescence (XRF) in substantial compliance with the XRF protocols established by EPA and presented as guidance in the Housing and Urban Development (HUD) publications. Performance of this survey is consistent and in substantial compliance with the documented methodologies identified by EPA and HUD.

Based on the readings from the XRF devices materials at the Crane Runway were considered painted with Lead-based Paint (LBP). The inspector did identify painted surfaces with excess lead above the stated regulatory limit. Lead-based paint surfaces included: **silver paint on metal column and bracing and yellow paint on metal pipe.**

Lead-Based Paint (LBP) is defined by HUD and the EPA as paint containing lead in amounts greater than or equal to 1.0 mg/cm² lead when analyzed by XRF or greater than 5000 parts per million or 0.5 percent by weight when analyzed by Flame Atomic Absorption.

There are materials in this structure that are considered “lead-containing”. Those materials are listed in Appendix B, XRF Lead Measurements. Contractors should follow the elements of the standard promulgated by the Occupational Safety and Health Administration. The Lead in Construction Standard 29 CFR 1926.62 applies to exposures to materials containing lead. Lead containing materials **were** identified in the Crane Runway (see Appendix B XRF Lead Measurements). Individuals bidding for work should be aware of the presence of lead when performing demolition and renovation activities involving these items.

7. RECOMMENDATIONS

Based on our visual observations and the laboratory results, DC Environmental recommends the following:

- The Lead-based Paint inspection did identify “lead-based paint” at the Crane Runway. Lead-containing items were identified at the Crane Runway. These materials are regulated by OSHA in regards to those individuals which could be exposed during repair, renovation or demolition. It is recommended to have trained professionals in the OSHA Lead Construction standard handle the lead-based paint and lead-containing materials during disturbance of the material. At the conclusion of the construction activities we recommend a Lead Risk Assessment to include soil testing and settled dust be performed.

We appreciate the opportunity to provide sampling and inspection of this area. Should you have additional questions, or if conditions change substantially, please contact us at your earliest convenience.

Sincerely,

DC Environmental
David Charlesworth
Certified Industrial Hygienist

LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities.

The environmental interpretations and opinions contained in this report are based on the results of instrumentation, laboratory tests and/or analyses Acme Environmental Industrial Hygiene, Inc. dba DC Environmental, has no involvement in, or control over, such equipment, testing and/or analysis. Acme Environmental Industrial Hygiene, Inc, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Acme Environmental Industrial Hygiene, Inc., has no control.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Acme Environmental Industrial Hygiene, Inc., should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

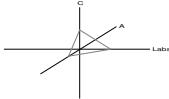
Appendix A
Asbestos Laboratory Results

CA Labs

Dedicated to
Quality

Crisp Analytical, L.L.C.

1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

**CA Labs, L.L.C.**

12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis**Laboratory Analysis Report - Polarized Light****DC Environmental**

PO Box 9315
Albuquerque, NM 87119

Attn: David Charlesworth
Customer Project: DCE 16-174, Rail Yard Parcel 4 Crane Runway
Reference #: CAL16117596CB Date: 11/16/2016

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestos mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestos anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

**Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235
AIHA LAP, LLC Laboratory #102929**

CA Labs**Crisp Analytical, L.L.C.**

1929 Old Denton Road
 Carrollton, TX 75006
 Phone 972-242-2754
 Fax 972-242-2798

**Dedicated to
 Quality**

CA Labs, L.L.C.

12232 Industriplex, Suite 32
 Baton Rouge, LA 70809
 Phone 225-751-5632
 Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: DCE 16-174, Rail Yard Parcel 4 Crane Runway **CA Labs Project #:** CAL16117596CB

Sample #	Layer #	Analysts Subsample	Physical Description of	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
----------	---------	--------------------	-------------------------	--	--

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
 gypsum - gypsum
 bi - binder
 or - organic
 ma - matrix
 mi - mica
 ve - vermiculite
 ot - other

pe - perlite
 qu - quartz

fg - fiberglass
 mw - mineral wool
 wo - wollastonite
 ta - talc
 sy - synthetic
 ce - cellulose
 br - brucite
 ka - kaolin (clay)

pa - palygorskite (clay)

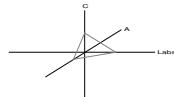
This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

CA Labs

Dedicated to
Quality

Crisp Analytical, L.L.C.

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**CA Labs, L.L.C.**

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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization**Customer Info:** Attn: David Charlesworth**DC Environmental**PO Box 9315
Albuquerque, NM 87119

Phone # 505-869-8000

Fax # 505-869-9453

Customer Project:

DCE 16-174, Rail Yard Parcel

4 Crane Runway

Turnaround Time:

5 Days

CA Labs Project #:

CAL16117596CB

Date: 11/16/2016**Samples Received:** 11/10/16 10:30am**Date Of Sampling:** 10/27/16**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of Homo- geneo- us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	-------------	------------	-----------------------	---	--	--------------------------------------	-------------------------------

16-174-100	100-1	Tar Coating/ black tar	y	None Detected	100%	qu,bi,ot
16-174-101	101-1	Tar Coating/ black tar	y	None Detected	100%	qu,bi,ot
16-174-102	102-1	Tar Coating/ black tar	y	None Detected	100%	qu,bi,ot
16-174-103	103-1	Infill/ tan plaster	y	None Detected	100%	qu,ca
16-174-104	104-1	Infill/ tan plaster	y	None Detected	100%	qu,ca
16-174-105	105-1	Infill/ tan plaster	y	None Detected	100%	qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate

mi - mica

fg - fiberglass

ce - cellulose

gypsum - gypsum

ve - vermiculite

mw - mineral wool

br - brucite

bi - binder

ot - other

wo - wollastonite

ka - kaolin (clay)

or - organic

pe - perlite

ta - talc

pa - palygorskite (clay)

ma - matrix

qu - quartz

sy - synthetic

Approved Signatories:

Tanner Rasmussen
Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CAL 16017596

DC Environmental
Consulting and Training Services

"Promoting Safety in the Workplace"

DC Environmental
PO Box 9315
Albuquerque, NM 87119Contact:
J. David Charlesworth

Phone: 505.869.8000 Fax: 505.869.9453

E-mail: JDCharlesworthcih@gmail.com

Site: City of Albuquerque (Intera)

Site Location: Rail Yard Parcel 4 Crane Runway

Comments:

PO / Job#: DCE 16-174 Date: 10/27/2016
 Turn Around Time: Same Day / 1Day / 2Day / 3Day / 4Day / 5Day
 PCM: NIOSH 7400A / NIOSH 7400B / Rotometer
 PLM: Standard / Point Count 400 - 1000 / CARB 435

TEM Air: AHERA / Yamate2 / NIOSH 7402
 TEM Bulk: Quantitative / Qualitative / Chatfield
 TEM Water: Potable / Non-Potable / Weight %
 TEM Microvac: Qual(+) / D5755(str/area) / D5756(str/mass)

IAQ Particle Identification (PLM LAB) PLM Opaques/Soot
 Particle Identification (TEM LAB) Special Project

 Metals Analysis: Method:

Matrix:

Analytes:

Sample ID	Date	Sample Location / Description / Task	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg. LPM	Total Time	
16-174-100	10/27	Crane Runway Tar Coating	P				
16-174-101	10/27	Crane Runway Tar Coating	P				
16-174-102	10/27	Crane Runway Tar Coating	P				
16-174-103	10/27	Crane Runway Infill	A				
16-174-104	10/27	Crane Runway Infill	P				
16-174-105	10/27	Crane Runway Infill	A				
			A				
			P				
			C				
			A				
			P				
			C				
			A				
			P				
			C				

Sampled By: Steven Gutierrez

Shipped Via: Fed Ex DHL UPS US Mail Courier Drop Off Other:Relinquished By: Steven Gutierrez
Date / Time: 11/09/2016 5:00PM

Relinquished By:

Relinquished By:

Date / Time:

Date / Time:

Received By:

Date / Time: 11-10-16 10:30AM

Received By:

Received By:

Date / Time:

Date / Time:

Condition Acceptable? Yes NoCondition Acceptable? Yes NoCondition Acceptable? Yes No

Appendix B
XRF Lead Measurements

Project #: 16-174 Project Name: Crane Runway Date: 10-27-2016
 Address: City of Albuquerque Railyard
 Technician: M. Nieman and Mr. David Plante

		Time : <u>11:45</u>			Results	Average
XRF Test Number	Location / Room	Component - Designation	Component Number	Color	Substrate	Result / Reading
1		Cal.			1.0	
2		Cal.			1.0	
3		Cal.			1.0	1.0
4		Cal.			-0.1	
5		Cal			-0.0	
6		Cal.			0.0	-0.0
		Time : _____			Results	Average
7	South West End	Column		Silver	Metal	4.1
8	South West End	Bracing		Silver	Metal	2.0
9	South West End	Ladder		Silver	Metal	-0.1
10	Center	Pipe Stand		Yellow	Metal	1.7
11	Center	Column		Silver	Metal	1.0
12	Center	Gusset		Silver	Metal	0.4
13	Center	Valve		Yellow	Metal	0.1
14	East End	Corrugated Metal Wall		Silver	Metal	0.5
15	East End	Shade Structure		Beige	Metal	-0.2
16	East End	Column		Silver	Metal	-0.1
17		Cal.			1.0	
18		Cal.			1.0	
19		Cal.			2.0	1.3
20		Cal.			0.2	
21		Cal			-0.0	
22		Cal.			0.1	0.1

Appendix C
Asbestos and LBP Data

ID	Read No/Sample ID	Lead	Units	LBP	Room Number	Building	Room Name	Wall	Structure	Location	Member	Mode	Substrate	Color	Location_2	Source
1	7	0.1	mg/cm2		1	Railyards Amtrack Office	Office	A	Window	Rgt	Sill	QM	Wood	Brown	Interior	Innovar, 2011
2	8	0.1	mg/cm2		1	Railyards Amtrack Office	Office	A	Window	Rgt	Sash	QM	Wood	Brown	Interior	Innovar, 2011
3	9	0.2	mg/cm2		1	Railyards Amtrack Office	Office	A	Window	Rgt	Lft casing	QM	Wood	Brown	Interior	Innovar, 2011
4	10	0.2	mg/cm2		1	Railyards Amtrack Office	Office	A	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
5	11	-0.2	mg/cm2		1	Railyards Amtrack Office	Office	B	Wall	U Ctr		QM	Plaster	White	Interior	Innovar, 2011
6	12	0	mg/cm2		1	Railyards Amtrack Office	Office	C	Door	Ctr	U Ctr	QM	Steel	Brown	Interior	Innovar, 2011
7	13	0	mg/cm2		1	Railyards Amtrack Office	Office	C	Door	Ctr	Lft casing	QM	Steel	Brown	Interior	Innovar, 2011
8	14	0.2	mg/cm2		1	Railyards Amtrack Office	Office	B	Window	Ctr	Sill	QM	Wood	Brown	Interior	Innovar, 2011
9	15	0.2	mg/cm2		3	Railyards Amtrack Office	Office	B	Window	Ctr	Lft casing	QM	Wood	Brown	Interior	Innovar, 2011
10	16	0.2	mg/cm2		3	Railyards Amtrack Office	Office	B	Window	Clr	Sash	QM	Wood	Brown	Interior	Innovar, 2011
11	17	0	mg/cm2		3	Railyards Amtrack Office	Office	A	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
12	18	-0.2	mg/cm2		3	Railyards Amtrack Office	Office	A	Wall	L Rgt		QM	Plaster	White	Interior	Innovar, 2011
13	19	-0.2	mg/cm2		3	Railyards Amtrack Office	Office	D	Door	Rgt	U Rgt	QM	Steel	Brown	Interior	Innovar, 2011
14	20	0.1	mg/cm2		3	Railyards Amtrack Office	Office	D	Door	Rgt	Lft casing	QM	Steel	Brown	Interior	Innovar, 2011
15	21	0.7	mg/cm2		4	Railyards Amtrack Office	Break Rm	B	Chair rail	Clr		QM	Wood	Brown	Interior	Innovar, 2011
16	22	0.2	mg/cm2		4	Railyards Amtrack Office	Break Rm	B	Window	Ctr	Lft casing	QM	Wood	Brown	Interior	Innovar, 2011
17	23	>9.9	mg/cm2	Yes	4	Railyards Amtrack Office	Break Rm	B	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
18	24	0.2	mg/cm2		4	Railyards Amtrack Office	Break Rm	C	Baseboard	Clr		QM	Plaster	White	Interior	Innovar, 2011
19	25	>9.9	mg/cm2	Yes	4	Railyards Amtrack Office	Break Rm	B	Wall	U Lft		QM	Plaster	White	Interior	Innovar, 2011
20	26	>9.9	mg/cm2	Yes	4	Railyards Amtrack Office	Break Rm	B	Wall	L Rgt		QM	Plaster	White	Interior	Innovar, 2011
21	27	0.3	mg/cm2		4	Railyards Amtrack Office	Break Rm	C	Wall	L Clr		QM	Drywall	White	Interior	Innovar, 2011
22	28	0.2	mg/cm2		3	Railyards Amtrack Office	Office	B	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
23	29	>9.9	mg/cm2	Yes	10	Railyards Amtrack Office	Lobby	A	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
24	30	0.3	mg/cm2		10	Railyards Amtrack Office	Lobby	D	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
25	31	0.3	mg/cm2		10	Railyards Amtrack Office	Lobby	A	Window	Ctr	Sash	QM	Wood	Brown	Interior	Innovar, 2011
26	32	>9.9	mg/cm2	Yes	10	Railyards Amtrack Office	Lobby	A	Column	Ctr		QM	Plaster	White	Interior	Innovar, 2011
27	33	>9.9	mg/cm2	Yes	10	Railyards Amtrack Office	Lobby	A	Column	Clr		QM	Plaster	White	Interior	Innovar, 2011
28	34	1.1	mg/cm2	Yes	12	Railyards Amtrack Office	Hallway	B	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
29	35	>9.9	mg/cm2	Yes	12	Railyards Amtrack Office	Hallway	D	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
30	36	0.1	mg/cm2		9	Railyards Amtrack Office	Wmnns Rm	D	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
31	37	0.1	mg/cm2		9	Railyards Amtrack Office	WmnnsRm	A	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
32	38	0.3	mg/cm2		9	Railyards Amtrack Office	WmnnsRm	B	Door	Ctr	Lft casing	QM	Wood	Brown	Interior	Innovar, 2011
33	39	0.2	mg/cm2		9	Railyards Amtrack Office	Wmnns Rm	B	Floor			QM	Cement	Brown	Interior	Innovar, 2011
34	40	-0.1	mg/cm2		11	Railyards Amtrack Office	Number Only	C	Stairs	Ctr	Treads	QM	Steel	Black	Interior	Innovar, 2011
35	41	0.1	mg/cm2		11	Railyards Amtrack Office	Number Only	C	Stairs	Ctr	Railing cap	QM	Steel	Black	Interior	Innovar, 2011
36	42	-0.1	mg/cm2		15	Railyards Amtrack Office	Upstairs	C	Wall	L Clr		QM	Plaster	White	Interior	Innovar, 2011
37	43	0.2	mg/cm2		15	Railyards Amtrack Office	Upstairs	B	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
38	44	>9.9	mg/cm2	Yes	15	Railyards Amtrack Office	Upstairs	A	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
39	45	6.6	mg/cm2	Yes	15	Railyards Amtrack Office	Upstairs	A	Door	Ctr	U Ctr	QM	Wood	White	Interior	Innovar, 2011
40	46	0.3	mg/cm2		15	Railyards Amtrack Office	Upstairs	B	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
41	47	0.3	mg/cm2		15	Railyards Amtrack Office	Upstairs	A	Wall	L Ctr		QM	Plaster	White	Interior	Innovar, 2011
42	48	0.2	mg/cm2		16	Railyards Amtrack Office	Museum	A	Floor			QM	Cement	Gray	Interior	Innovar, 2011
43	49	2.3	mg/cm2	Yes	16	Railyards Amtrack Office	Museum	A	Floor			QM	Cement	White	Interior	Innovar, 2011
44	50	0.3	mg/cm2		16	Railyards Amtrack Office	Museum	A	Floor			QM	Cement	White	Interior	Innovar, 2011
45	51	0.1	mg/cm2		16	Railyards Amtrack Office	Museum	D	Wall	L Ctr		QM	Cement	Gray	Interior	Innovar, 2011
46	52	0.2	mg/cm2		16	Railyards Amtrack Office	Museum	B	Wall	L Ctr		QM	Cement	Gray	Interior	Innovar, 2011

ID	Read No/Sample ID	Lead	Units	LBP	Room Number	Building	Room Name	Wall	Structure	Location	Member	Mode	Substrate	Color	Location_2	Source
47	59	0.1	mg/cm2		16	Railyards Amtrack Office	Museum	A	Wall	L Ctr		QM	Cement	Gray	Interior	Innovar, 2011
48	60	6.3	mg/cm2	Yes	16	Railyards Amtrack Office	Museum	A	Floor			QM	Cement	Yellow	Interior	Innovar, 2011
49	61	0.1	mg/cm2		16	Railyards Amtrack Office	Museum	A	Door	Ctr	U Ctr	QM	Steel	Green	Interior	Innovar, 2011
50	62	0.1	mg/cm2		16	Railyards Amtrack Office	Museum	A	Door	Ctr	U Ctr	QM	Steel	Black	Interior	Innovar, 2011
51	63	0.5	mg/cm2		16	Railyards Amtrack Office	Museum	A	Door	Ctr	Lft casing	QM	Steel	Black	Interior	Innovar, 2011
52	64	0.7	mg/cm2		16	Railyards Amtrack Office	Museum	A	Floor			QM	Cement	Red	Interior	Innovar, 2011
53	65	1.8	mg/cm2	Yes	1	Railyards Amtrack Office	Facility	B	Railing	Ctr	Railing	QM	Steel	Yellow	Exterior	Innovar, 2011
54	66	0.2	mg/cm2		1	Railyards Amtrack Office	Facility	B	Door	Ctr	U Ctr	QM	Steel	Red	Exterior	Innovar, 2011
55	67	-0.1	mg/cm2		1	Railyards Amtrack Office	Facility	D	Window	Ctr	Sill	QM	Wood	Black	Exterior	Innovar, 2011
56	68	0.2	mg/cm2		1	Railyards Amtrack Office	Facility	D	Window	Ctr	Sash	QM	Wood	Black	Exterior	Innovar, 2011
57	69	0	mg/cm2		1	Railyards Amtrack Office	Facility	C	Window	Rgt	Sill	QM	Wood	Black	Exterior	Innovar, 2011
58	7	5	mg/cm2	Yes	1	Main Machine Shop	Number Only	B	Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
59	8	1.1	mg/cm2	Yes	1	Main Machine Shop	Number Only	C	Door	Ctr	U Ctr	QM	Steel	Silver	Interior	Innovar, 2011
60	9	2.2	mg/cm2	Yes	1	Main Machine Shop	Number Only	C	Column	Clr		QM	Steel	Silver	Interior	Innovar, 2011
61	10	0.1	mg/cm2		1	Main Machine Shop	Number Only	A	Floor			QM	Ceramic	Red	Interior	Innovar, 2011
62	11	1.8	mg/cm2	Yes	1	Main Machine Shop	Number Only	B	Cnt Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
63	12	0.7	mg/cm2		1	Main Machine Shop	Number Only	B	Stairs	Ctr	Treads	QM	Steel	Green	Interior	Innovar, 2011
64	13	1.9	mg/cm2	Yes	1	Main Machine Shop	Number Only	D	Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
65	14	5.4	mg/cm2	Yes	1	Main Machine Shop	Number Only	D	Ceiling Beam	Beam	Ctr	QM	Steel	Silver	Interior	Innovar, 2011
66	15	4.2	mg/cm2	Yes	1	Main Machine Shop	Number Only	B	Column	Ctr		QM	Steel	Black	Exterior	Innovar, 2011
67	16	2.7	mg/cm2	Yes	1	Main Machine Shop	Number Only	B	Stairs	Ctr	Treads	QM	Wood	White	Interior	Innovar, 2011
68	1	3.4	mg/cm2	Yes		Boiler Shop	Number Only	B	Cnt Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
69	2	0.1	mg/cm2			Boiler Shop	Number Only	A	Floor			QM	Cement	Red	Interior	Innovar, 2011
70	3	3.2	mg/cm2	Yes		Boiler Shop	Number Only	C	Cnt Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
71	4	2.5	mg/cm2	Yes		Boiler Shop	Number Only	A	Column	Lft		QM	Steel	Silver	Interior	Innovar, 2011
72	5	-0.3	mg/cm2			Boiler Shop	Number Only	C	Door	Lft	U Ctr	QM	Steel	Silver	Interior	Innovar, 2011
73	1	1.1	mg/cm2	Yes		Blacksmith Shop	Number Only	B	Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
74	2	3.1	mg/cm2	Yes		Blacksmith Shop	Number Only	C	Column	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
75	3	2.1	mg/cm2	Yes		Blacksmith Shop	Number Only	D	Wall	L Ctr		QM	Brick	Silver	Interior	Innovar, 2011
76	4	0.2	mg/cm2			Blacksmith Shop	Number Only	D	Door	Ctr	U Ctr	QM	Steel	Silver	Interior	Innovar, 2011
77	5	0.1	mg/cm2			Blacksmith Shop	Number Only	D	Window	Ctr	Part. Bead	QM	Steel	Silver	Interior	Innovar, 2011
78	7	2.7	mg/cm2	Yes		Bldg North of Firehouse	Number Only	A	Bldg North of Firehouse	L Ctr		QM	Cement	Silver	Interior	Innovar, 2011
79	8	2.3	mg/cm2	Yes		Bldg North of Firehouse	Number Only	A	Window	Ctr	Lft casing	QM	Steel	Silver	Interior	Innovar, 2011
80	9	5.6	mg/cm2	Yes		Bldg North of Firehouse	Number Only	A	Door	Ctr	U Ctr	QM	Steel	Silver	Interior	Innovar, 2011
81	10	1.1	mg/cm2	Yes		Bldg North of Firehouse	Number Only	A	Window	Ctr	Rgt casin	QM	Steel	Silver	Interior	Innovar, 2011
82	11	2.4	mg/cm2	Yes		Bldg North of Firehouse	Number Only	C	Frame	Ctr		QM	Steel	Silver	Interior	Innovar, 2011
83	12	1.1	mg/cm2	Yes		Bldg North of Firehouse	Number Only	C	Wall	L Ctr		QM	Cement	Silver	Interior	Innovar, 2011
84	13	0.2	mg/cm2			Bldg North of Firehouse	Number Only	D	Wall	L Ctr		QM	Cement	Silver	Interior	Innovar, 2011
85	1	1.1	mg/cm2	Yes		Bldg South of Firehouse	Number Only	A	Wall	L Ctr		QM	Cement	White	Interior	Innovar, 2011
86	2	0.1	mg/cm2			Bldg South of Firehouse	Number Only	B	Wall	L Ctr		QM	Cement	White	Interior	Innovar, 2011
87	3	0	mg/cm2			Bldg South of Firehouse	Number Only	A	Door Cnt	Ctr	Lft casing	QM	Cement	White	Interior	Innovar, 2011
88	4	1.1	mg/cm2	Yes		Bldg South of Firehouse	Number Only	A	Column	Ctr		QM	Cement	Green	Interior	Innovar, 2011
89	5	1.2	mg/cm2	Yes		Bldg South of Firehouse	Number Only	B	Wall	L Ctr		QM	Cement	Green	Interior	Innovar, 2011
90	6	0.5	mg/cm2			Bldg South of Firehouse	Number Only	C	Door	Ctr	U Ctr	QM	Cement	Green	Interior	Innovar, 2011
91	13029.029-020513-01L	150	ppm			Blacksmith Shop			Interior Walls	NW Corner			Paint	Silver		Rhoades, 2013
92	13029.029-020513-02L	410	ppm			Blacksmith Shop			Interior Walls	NE Corner			Paint	Silver		Rhoades, 2013

ID	Read No/Sample ID	Lead	Units	LBP	Room Number	Building	Room Name	Wall	Structure	Location	Member	Mode	Substrate	Color	Location_2	Source
93	13029.029-020513-03L	100	ppm			Blacksmith Shop			Interior Walls	SW Corner			Paint	Silver		Rhoades, 2013
94	13029.029-020513-04L	150	ppm			Blacksmith Shop			Interior Walls	SE Corner			Paint	Silver		Rhoades, 2013
95	13029.029-020513-05L	2570	ppm			Blacksmith Shop			Overhead Piping				Paint	Red		Rhoades, 2013
96	13029.029-020513-06L	2640	ppm			Blacksmith Shop			Exterior Brick Walls		Trim		Paint	Rust		Rhoades, 2013
97	13029.029-020513-07L	4040	ppm			Blacksmith Shop			Interior Walls Office Shack				Paint	Cream		Rhoades, 2013
98	13029.029-020513-08L	250	ppm			Blacksmith Shop			Building	NW Corner			Surface Dust			Rhoades, 2013
99	13029.029-020513-09L	400	ppm			Blacksmith Shop			Building	NE Corner			Surface Dust			Rhoades, 2013
100	13029.029-020513-10L	100	ppm			Blacksmith Shop			Building	Center			Surface Dust			Rhoades, 2013
101	13029.029-020513-11L	710	ppm			Blacksmith Shop			Building	SW Corner			Surface Dust			Rhoades, 2013
102	13029.029-020513-12L	970	ppm			Blacksmith Shop			Building	SE Corner			Surface Dust			Rhoades, 2013

ID	Sample Number	Date	Description	Location	Percent Asbestos	Asbestos Type	Classification	Source
1	577007-NB.NS.1	Sep-05	Silver glaze coating window pane	Boiler Shop, South Side	0%			Terracon, 2005
2	577007-NB.NS.2	Sep-05	Silver glaze coating window pane	Boiler Shop, South Side	0%			Terracon, 2005
3	577007-NB.NS.3	Sep-05	Silver glaze coating window pane	Boiler Shop, South Side	0%			Terracon, 2005
4	577007-NB.SS.4	Sep-05	Green painted window pane	Boiler Shop, South Side	0%			Terracon, 2005
5	577007-NB.SS.5	Sep-05	Green painted window pane	Boiler Shop, South Side	0%			Terracon, 2005
6	577007-NB.SS.6	Sep-05	Green painted window pane	Boiler Shop, North Side	0%			Terracon, 2005
7	577007-NB.NS.7	Sep-05	Silver glaze coating window pane	Boiler Shop, North Side	0%			Terracon, 2005
8	577007-NB.NS.8	Sep-05	Silver glaze coating window pane	Boiler Shop, North Side	0%			Terracon, 2005
9	577007-NB.NS.9	Sep-05	Silver glaze/black spray-on with pane	Boiler Shop, North Side	0%			Terracon, 2005
10	577007-NB.NS.10	Sep-05	Silver glaze/black spray-on with pane	Boiler Shop, North Side	0%			Terracon, 2005
11	577007-NB.NS.11	Sep-05	Silver glaze/black spray-on with pane	Boiler Shop, North Side	0%			Terracon, 2005
12	577007-SB.SS.F1.1	Sep-05	Silver glaze coating window pane	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
13	577007-SB.SS.F1.2	Sep-05	Glaze coating on window pane (silver/black)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
14	577007-SB.SS.F1.3	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
15	577007-SB.SS.F1.4	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
16	577007-SB.SS.F1.5	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
17	577007-SB.SS.F1.6	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
18	577007-SB.SS.F1.7	Sep-05	Glaze coating on window pane (silver/green)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
19	577007-SB.SS.F2.1	Sep-05	Glaze coating on window pane (beige/green)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
20	577007-SB.SS.F2.2	Sep-05	Glaze coating on window pane (tan/brown)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
21	577007-SB.SS.F2.3	Sep-05	Glaze coating on window pane (off-white)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
22	577007-SB.SS.F2.4	Sep-05	Glaze coating on window pane (grey/green)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
23	577007-SB.SS.F2.5	Sep-05	Glaze coating on window pane (off-white)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
24	577007-SB.SS.F2.6	Sep-05	Plaster over cc wall (grey with paint)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
25	577007-SB.SS.F2.7	Sep-05	Plaster over cc wall (grey with paint)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
26	577007-NB.SS.1	Sep-05	Window glazing (tan)	Boiler Shops, South Side	Trace <1%			Terracon, 2005
27	577007-NB.SS.2	Sep-05	Window glazing (tan)	Boiler Shops, South Side	2%	Chrysotile	Non-Friable	Terracon, 2005
28	577007-NB.SS.3	Sep-05	Window glazing (tan)	Boiler Shops, South Side	2%	Chrysotile	Non-Friable	Terracon, 2005
29	577007-NB.SS.01	Sep-05	Window glazing (beige)	Boiler Shops, South Side	Trace <1%	Chrysotile		Terracon, 2005
30	577007-NB.SS.02	Sep-05	Window glazing (beige)	Boiler Shops, South Side	Trace <1%	Chrysotile		Terracon, 2005
31	577007-NB.SS.03	Sep-05	Window glazing (beige)	Boiler Shops, South Side	Trace <1%	Chrysotile		Terracon, 2005
32	577007-NB.ES.01	Sep-05	Window glazing (beige)	Boiler Shops, East Side	Trace <1%	Chrysotile		Terracon, 2005
33	577007-NB.ES.02	Sep-05	Window glazing (beige)	Boiler Shops, East Side	Trace <1%	Chrysotile		Terracon, 2005
34	577007-N.O.01	Sep-05	Outside shingle (red with granules)	Outside the Boiler Shop	0%			Terracon, 2005
35	577007-N.O.02	Sep-05	Outside shingle (red with granules)	Outside the Boiler Shop	0%			Terracon, 2005
36	577007-N.O.03	Sep-05	Outside shingle (red with granules)	Outside the Boiler Shop	0%			Terracon, 2005
37	577007-N.O.G.01	Sep-05	White insulation	100 ft North of CWE Storage Shed	NA			Terracon, 2005
38	577007-N.O.G.02	Sep-05	White insulation	100 ft North of CWE Storage Shed	NA			Terracon, 2005
39	577007-N.O.G.03	Sep-05	White insulation	100 ft North of CWE Storage Shed	NA			Terracon, 2005
40	577007-NTE. WS-1	Sep-05	Transite pipe (grey)	Former Transformer Area, West Side	25%	Chrysotile	Friable	Terracon, 2005
41	577007-NTE. WS-1	Sep-05	Transite pipe (grey)	Former Transformer Area, West Side	5%	Crocidolite		Terracon, 2005
42	577007-NTE.ES-3	Sep-05	Transite pipe (grey)	Former Transformer Area	25%	Chrysotile	Friable	Terracon, 2005
43	577007-NTE.ES-3	Sep-05	Transite pipe (grey)	Former Transformer Area	5%	Crocidolite		Terracon, 2005
44	577007-NTE.ES-1 (577007-NTE.NS-1???)	Sep-05	Transite pipe (grey)	Former Transformer Area	25%	Chrysotile	Friable	Terracon, 2005
45	577007-NTE.ES-1 (577007-NTE.NS-1???)	Sep-05	Transite pipe (grey)	Former Transformer Area	3%	Crocidolite		Terracon, 2005
46	577007-SWB.WW.01	Sep-05	Window putty/glazing (beige)	Babbit Shop, West Wall	Trace <1%	Chrysotile		Terracon, 2005
47	577007-SWB.WW.02	Sep-05	Window putty/glazing (beige)	Babbit Shop, West Wall	Trace <1%	Chrysotile		Terracon, 2005
48	577007-FH.01	Sep-05	Insulation/plaster over brick	Fire House	0%			Terracon, 2005
49	577007-FH.02	Sep-05	Insulation/plaster over brick	Fire House	0%			Terracon, 2005
50	577007-FH.03	Sep-05	Insulation/plaster over brick	Fire House	4%	Chrysotile	Friable	Terracon, 2005
51	577007-FH.04	Sep-05	Insulation/plaster over brick	Fire House	5%	Chrysotile	Friable	Terracon, 2005
52	01-DW1-1	Aug-10	off-white surfaced white compound (drywall)	Amtrack Office	none detected			Innovar, 2011
53	01-DW1-2	Aug-10	white drywall with brown paper (drywall)	Amtrack Office	none detected			Innovar, 2011
54	02-DW1-1	Aug-10	white surfaced white compound (drywall)	Amtrack Office	none detected			Innovar, 2011

ID	Sample Number	Date	Description	Location	Percent Asbestos	Asbestos Type	Classification	Source
55	03-DW1-1	Aug-10	white surfaced white compound (drywall)	Amtrack Office	none detected			Innovar, 2011
56	04-P1-1	Aug-10	white surfaced tan plaster (plaster)	Amtrack Office	none detected			Innovar, 2011
57	05-P1-1	Aug-10	white surfaced tan plaster (plaster)	Amtrack Office	none detected			Innovar, 2011
58	06-P1-1	Aug-10	white surfaced white compound (plaster)	Amtrack Office	none detected			Innovar, 2011
59	06-P1-2	Aug-10	tan plaster (plaster)	Amtrack Office	none detected			Innovar, 2011
60	07-CB1-1	Aug-10	pink cover base (cover base)	Amtrack Office	none detected			Innovar, 2011
61	07-CB1-2	Aug-10	tan mastic (cover base)	Amtrack Office	none detected			Innovar, 2011
62	07-CB1-3	Aug-10	white surfaced white compound (cover base)	Amtrack Office	none detected			Innovar, 2011
63	07-CB1-4	Aug-10	brown mastic (cover base)	Amtrack Office	<1%	Anthophyllite		Innovar, 2011
64	07-CB1-5	Aug-10	tan plaster (cover base)	Amtrack Office	none detected			Innovar, 2011
65	08-CB1-1	Aug-10	pink cover base (cover base)	Amtrack Office	none detected			Innovar, 2011
66	08-CB1-2	Aug-10	tan mastic (cover base)	Amtrack Office	none detected			Innovar, 2011
67	08-CB1-3	Aug-10	brown mastic (cover base)	Amtrack Office	<1%	Anthophyllite		Innovar, 2011
68	08-CB1-4	Aug-10	tan plaster (cover base)	Amtrack Office	none detected			Innovar, 2011
69	09-CB1-1	Aug-10	pink cover base (cover base)	Amtrack Office	none detected			Innovar, 2011
70	09-CB1-2	Aug-10	tan mastic (cover base)	Amtrack Office	none detected			Innovar, 2011
71	09-CB1-3	Aug-10	brown mastic (cover base)	Amtrack Office	<1%	Anthophyllite		Innovar, 2011
72	09-CB1-4	Aug-10	tan plaster (cover base)	Amtrack Office	none detected			Innovar, 2011
73	10-CT1-1	Aug-10	white surfacing (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
74	10-CT1-2	Aug-10	tan ceiling (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
75	10-CT1-3	Aug-10	brown mastic (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
76	11-CT1-1	Aug-10	white surfacing (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
77	11-CT1-2	Aug-10	tan ceiling tile (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
78	11-CT1-3	Aug-10	brown mastic (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
79	12-CT1-1	Aug-10	tan ceiling tile (no surfacing) (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
80	12-CT1-2	Aug-10	brown mastic (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
81	13-WC1-1	Aug-10	black surfacing white caulking (Window Caulk)	Amtrack Office	none detected			Innovar, 2011
82	14-WC1-1	Aug-10	black surfacing white caulking (Window Caulk)	Amtrack Office	none detected			Innovar, 2011
83	15-WC1-1	Aug-10	black surfacing white caulking (Window Caulk)	Museum	none detected			Innovar, 2011
84	16-CT2-1	Aug-10	white surfacing (ceiling tile)	Museum	none detected			Innovar, 2011
85	16-CT2-2	Aug-10	Gray ceiling tile (ceiling tile)	Museum	none detected			Innovar, 2011
86	17-CT2-1	Aug-10	White Surfacing (ceiling tile)	Museum	none detected			Innovar, 2011
87	17-CT2-2	Aug-10	Gray ceiling tile (ceiling tile)	Museum	none detected			Innovar, 2011
88	18-CT2-1	Aug-10	white surfacing (ceiling tile)	Museum	none detected			Innovar, 2011
89	18-CT2-2	Aug-10	Gray ceiling tile (ceiling tile)	Museum	none detected			Innovar, 2011
90	19-W1-1	Aug-10	black woven covering (Wiring)	Museum	none detected			Innovar, 2011
91	20-W1-1	Aug-10	black woven covering (Wiring)	Museum	none detected			Innovar, 2011
92	13029.029-020513-01	Feb-13	12" Spline Ceiling Tile	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
93	13029.029-020513-02	Feb-13	12" Spline Ceiling Tile	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
94	13029.029-020513-03	Feb-13	12" Spline Ceiling Tile	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
95	13029.029-020513-04	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
96	13029.029-020513-05	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013
97	13029.029-020513-06	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013
98	13029.029-020513-07	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
99	13029.029-020513-08	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
100	13029.029-020513-09	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
101	13029.029-020513-10	Feb-13	Window Glazing	Reinforced Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
102	13029.029-020513-11	Feb-13	Window Glazing	Reinforced Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
103	13029.029-020513-12	Feb-13	Window Glazing	Reinforced Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
104	13029.029-020513-13	Feb-13	Window Glazing	Clear Glass, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013
105	13029.029-020513-14	Feb-13	Window Glazing	Clear Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
106	13029.029-020513-15	Feb-13	Window Glazing	Clear Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
107	13029.029-020513-16	Feb-13	Window Glazing	Wood Panes, Blacksmith Shop	<1%	Chrysotile	Poor/Friable	Roades, 2013
108	13029.029-020513-17	Feb-13	Window Glazing	Wood Panes, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013

ID	Sample Number	Date	Description	Location	Percent Asbestos	Asbestos Type	Classification	Source
109	13029.029-020513-18	Feb-13	Window Glazing	Wood Panes, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
110	13029.029-020513-19	Feb-13	Gray Parapet Tar	Throughout Roof, Blacksmith Shop	10%	Chrysotile	Poor/Non-Friable	Roades, 2013
111	13029.029-020513-20	Feb-13	Gray Parapet Tar	Throughout Roof, Blacksmith Shop	10%	Chrysotile	Poor/Non-Friable	Roades, 2013
112	13029.029-020513-21	Feb-13	Gray Parapet Tar	Throughout Roof, Blacksmith Shop	10%	Chrysotile	Poor/Non-Friable	Roades, 2013
113	13029.029-020513-22	Feb-13	Black Roofing Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
114	13029.029-020513-23	Feb-13	Black Roofing Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
115	13029.029-020513-24	Feb-13	Black Roofing Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
116	13029.029-020513-25	Feb-13	Black Penetration Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
117	13029.029-020513-26	Feb-13	Black Penetration Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
118	13029.029-020513-27	Feb-13	Black Penetration Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
119	13029.029-020513-28	Feb-13	Gray Roofing Felt	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
120	13029.029-020513-29	Feb-13	Gray Roofing Felt	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
121	13029.029-020513-30	Feb-13	Gray Roofing Felt	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
122	13029.029-020513-31	Feb-13	Black Parapet Tar	Throughout Roof, Blacksmith Shop	8%	Chrysotile	Poor/Non-Friable	Roades, 2013
123	13029.029-020513-32	Feb-13	Black Parapet Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
124	13029.029-020513-33	Feb-13	Black Parapet Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
125	13029.029-020513-34	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
126	13029.029-020513-35	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
127	13029.029-020513-36	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
128	13029.029-020513-34a	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
129	13029.029-020513-35a	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
130	13029.029-020513-36a	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
131	13029.029-020513-37	Feb-13	Window Glazing	Plastic Panes, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013
132	13029.029-020513-38	Feb-13	Window Glazing	Plastic Panes, Blacksmith Shop	3%	Chrysotile	Poor/Friable	Roades, 2013
133	13029.029-020513-39	Feb-13	Window Glazing	Plastic Panes, Blacksmith Shop	3%	Chrysotile	Poor/Friable	Roades, 2013

Appendix D
Photograph Log

Photographic Log



Figure 1 Turn Table

Appendix E

Certificates

CERTIFICATE OF TRAINING

EPA/AHERA Training Program

This is to certify that



MICHAEL NIEMAN

NM. DL. 006 087 493

Has completed 4 hours of training and PASSED the test required by Section 206 of TSCA Title II and in accordance with
LOUISIANA STATE ASBESTOS REGULATIONS entitled,

ASBESTOS BUILDING INSPECTOR REFRESHER

PRESENTED BY

Mendez Environmental™
1005 Veterans Mem Blvd
Suite, 101
Kenner, LA 70062
Tel: (504) 468-8858



Director:
Rodolfo G. Mendez

IN COLLABORATION WITH

DC Environmental
P.O. Box 9315
Albuquerque, NM 87119
Tel: (505) 869-8000
www.dcenvironmental.net

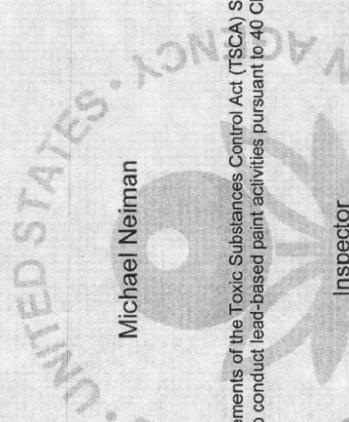
NM Program Manager:
David Charlesworth

Course Date: 04-12-2016
Certificate Number: AS0416KNMPMN17906

Test Date: 04-12-2016 Grade: PASS
Expiration Date: 04-12-2017

United States Environmental Protection Agency

This is to certify that



Michael Neiman



has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Inspector

In the Jurisdiction of:

New Mexico

This certification is valid from the date of issuance and expires

September 25, 2017

NM-I-129246-1
Certification #

September 11, 2014
Issued On

Adrienne Priselac
Adrienne Priselac, Manager, Toxics Office
Land Division



I successfully completed the course titled

Asbestos Inspector Refresher
as required by 40 CFR 763

Certificate number 012116-01

Expiration date 1/21/2017



This certifies successful
completion of the approved 4 hour training course.

David Plante
029721599

Asbestos Inspector

Refresher

For the purposes of accreditation required under

TSCA Title II and AHERA

In compliance with the State of Louisiana regulation.

Conducted by

Aome Environmental, Inc.

3816 Carlisle NE

Albuquerque, NM 87107

(505) 433-4461

Course Date:

01/21/2016

Expires On:

012116-01

Course Director:

A handwritten signature in black ink, appearing to read "D. Plante".

Certificate Number:

012116-01

Appendix G
Laboratory Analytical Report for Groundwater



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 15, 2016

Joseph Tracy
Intera, Inc.
6000 Uptown Boulevard, NE Suite 220
Albuquerque, NM 87110
TEL: (505) 246-1600
FAX (505) 246-2600

RE: Abq Railyard OrderNo.: 1611262

Dear Joseph Tracy:

Hall Environmental Analysis Laboratory received 9 sample(s) on 11/4/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1611262**

Date Reported: **11/15/2016**

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-001

Client Sample ID: MW-07

Collection Date: 11/4/2016 9:12:00 AM

Matrix: AQUEOUS

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							
1,2-Dibromoethane	ND	0.010		µg/L	1	11/10/2016 3:43:16 PM	28583
EPA METHOD 8260B: VOLATILES							
Benzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Toluene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Ethylbenzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Naphthalene	ND	2.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1-Methylnaphthalene	ND	4.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
2-Methylnaphthalene	ND	4.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Acetone	ND	10		µg/L	1	11/10/2016 5:59:40 AM	W38593
Bromobenzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Bromodichloromethane	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Bromoform	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Bromomethane	ND	3.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
2-Butanone	ND	10		µg/L	1	11/10/2016 5:59:40 AM	W38593
Carbon disulfide	ND	10		µg/L	1	11/10/2016 5:59:40 AM	W38593
Carbon Tetrachloride	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Chlorobenzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Chloroethane	ND	2.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Chloroform	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Chloromethane	ND	3.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
2-Chlorotoluene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
4-Chlorotoluene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
cis-1,2-DCE	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Dibromochloromethane	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Dibromomethane	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,1-Dichloroethane	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,1-Dichloroethene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,2-Dichloropropane	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 1 of 25

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1611262**

Date Reported: **11/15/2016**

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-001

Client Sample ID: MW-07

Collection Date: 11/4/2016 9:12:00 AM

Matrix: AQUEOUS

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							
1,3-Dichloropropane	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
2,2-Dichloropropane	ND	2.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,1-Dichloropropene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Hexachlorobutadiene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
2-Hexanone	ND	10		µg/L	1	11/10/2016 5:59:40 AM	W38593
Isopropylbenzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
4-Isopropyltoluene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
4-Methyl-2-pentanone	ND	10		µg/L	1	11/10/2016 5:59:40 AM	W38593
Methylene Chloride	ND	3.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
n-Butylbenzene	ND	3.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
n-Propylbenzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
sec-Butylbenzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Styrene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
tert-Butylbenzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
trans-1,2-DCE	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Trichlorofluoromethane	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Vinyl chloride	ND	1.0		µg/L	1	11/10/2016 5:59:40 AM	W38593
Xylenes, Total	ND	1.5		µg/L	1	11/10/2016 5:59:40 AM	W38593
Surr: 1,2-Dichloroethane-d4	93.6	70-130	%Rec		1	11/10/2016 5:59:40 AM	W38593
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec		1	11/10/2016 5:59:40 AM	W38593
Surr: Dibromofluoromethane	96.0	70-130	%Rec		1	11/10/2016 5:59:40 AM	W38593
Surr: Toluene-d8	96.2	70-130	%Rec		1	11/10/2016 5:59:40 AM	W38593

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 2 of 25

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1611262

Date Reported: 11/15/2016

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-002

Matrix: AQUEOUS

Client Sample ID: MW-06

Collection Date: 11/4/2016 9:47:00 AM

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							
1,2-Dibromoethane	ND	0.010		µg/L	1	11/10/2016 3:58:16 PM	28583
EPA METHOD 8260B: VOLATILES							
Benzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Toluene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Ethylbenzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Naphthalene	ND	2.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1-Methylnaphthalene	ND	4.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
2-Methylnaphthalene	ND	4.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Acetone	ND	10		µg/L	1	11/10/2016 6:28:08 AM	W38593
Bromobenzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Bromodichloromethane	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Bromoform	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Bromomethane	ND	3.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
2-Butanone	ND	10		µg/L	1	11/10/2016 6:28:08 AM	W38593
Carbon disulfide	ND	10		µg/L	1	11/10/2016 6:28:08 AM	W38593
Carbon Tetrachloride	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Chlorobenzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Chloroethane	ND	2.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Chloroform	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Chloromethane	ND	3.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
2-Chlorotoluene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
4-Chlorotoluene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
cis-1,2-DCE	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Dibromochloromethane	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Dibromomethane	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,1-Dichloroethane	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,1-Dichloroethene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,2-Dichloropropane	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1611262

Date Reported: 11/15/2016

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-002

Client Sample ID: MW-06

Collection Date: 11/4/2016 9:47:00 AM

Matrix: AQUEOUS

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							
1,3-Dichloropropane	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
2,2-Dichloropropane	ND	2.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,1-Dichloropropene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Hexachlorobutadiene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
2-Hexanone	ND	10		µg/L	1	11/10/2016 6:28:08 AM	W38593
Isopropylbenzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
4-Isopropyltoluene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
4-Methyl-2-pentanone	ND	10		µg/L	1	11/10/2016 6:28:08 AM	W38593
Methylene Chloride	ND	3.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
n-Butylbenzene	ND	3.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
n-Propylbenzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
sec-Butylbenzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Styrene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
tert-Butylbenzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
trans-1,2-DCE	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Trichlorofluoromethane	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Vinyl chloride	ND	1.0		µg/L	1	11/10/2016 6:28:08 AM	W38593
Xylenes, Total	ND	1.5		µg/L	1	11/10/2016 6:28:08 AM	W38593
Surr: 1,2-Dichloroethane-d4	91.3	70-130	%Rec		1	11/10/2016 6:28:08 AM	W38593
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec		1	11/10/2016 6:28:08 AM	W38593
Surr: Dibromofluoromethane	95.4	70-130	%Rec		1	11/10/2016 6:28:08 AM	W38593
Surr: Toluene-d8	97.1	70-130	%Rec		1	11/10/2016 6:28:08 AM	W38593

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 4 of 25

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1611262

Date Reported: 11/15/2016

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-003

Matrix: AQUEOUS

Client Sample ID: MW-08

Collection Date: 11/4/2016 11:45:00 AM

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							
1,2-Dibromoethane	ND	0.010		µg/L	1	11/10/2016 4:13:20 PM	28583
EPA METHOD 8260B: VOLATILES							
Benzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Toluene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Ethylbenzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Naphthalene	ND	2.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1-Methylnaphthalene	ND	4.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
2-Methylnaphthalene	ND	4.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Acetone	ND	10		µg/L	1	11/10/2016 6:56:36 AM	W38593
Bromobenzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Bromodichloromethane	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Bromoform	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Bromomethane	ND	3.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
2-Butanone	ND	10		µg/L	1	11/10/2016 6:56:36 AM	W38593
Carbon disulfide	ND	10		µg/L	1	11/10/2016 6:56:36 AM	W38593
Carbon Tetrachloride	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Chlorobenzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Chloroethane	ND	2.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Chloroform	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Chloromethane	ND	3.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
2-Chlorotoluene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
4-Chlorotoluene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
cis-1,2-DCE	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Dibromochloromethane	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Dibromomethane	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,1-Dichloroethane	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,1-Dichloroethene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,2-Dichloropropane	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1611262**

Date Reported: **11/15/2016**

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-003

Client Sample ID: MW-08

Collection Date: 11/4/2016 11:45:00 AM

Matrix: AQUEOUS

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							
1,3-Dichloropropane	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
2,2-Dichloropropane	ND	2.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,1-Dichloropropene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Hexachlorobutadiene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
2-Hexanone	ND	10		µg/L	1	11/10/2016 6:56:36 AM	W38593
Isopropylbenzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
4-Isopropyltoluene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
4-Methyl-2-pentanone	ND	10		µg/L	1	11/10/2016 6:56:36 AM	W38593
Methylene Chloride	ND	3.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
n-Butylbenzene	ND	3.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
n-Propylbenzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
sec-Butylbenzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Styrene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
tert-Butylbenzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
trans-1,2-DCE	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Trichlorofluoromethane	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Vinyl chloride	ND	1.0		µg/L	1	11/10/2016 6:56:36 AM	W38593
Xylenes, Total	ND	1.5		µg/L	1	11/10/2016 6:56:36 AM	W38593
Surr: 1,2-Dichloroethane-d4	91.5	70-130		%Rec	1	11/10/2016 6:56:36 AM	W38593
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	11/10/2016 6:56:36 AM	W38593
Surr: Dibromofluoromethane	93.5	70-130		%Rec	1	11/10/2016 6:56:36 AM	W38593
Surr: Toluene-d8	96.1	70-130		%Rec	1	11/10/2016 6:56:36 AM	W38593

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1611262**

Date Reported: **11/15/2016**

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-004

Client Sample ID: MW-02

Collection Date: 11/4/2016 1:10:00 PM

Matrix: AQUEOUS

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							
1,2-Dibromoethane	ND	0.010		µg/L	1	11/10/2016 4:28:21 PM	28583
EPA METHOD 8260B: VOLATILES							
Benzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Toluene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Ethylbenzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Naphthalene	ND	2.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1-Methylnaphthalene	ND	4.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
2-Methylnaphthalene	ND	4.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Acetone	ND	10		µg/L	1	11/10/2016 7:24:53 AM	W38593
Bromobenzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Bromodichloromethane	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Bromoform	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Bromomethane	ND	3.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
2-Butanone	ND	10		µg/L	1	11/10/2016 7:24:53 AM	W38593
Carbon disulfide	ND	10		µg/L	1	11/10/2016 7:24:53 AM	W38593
Carbon Tetrachloride	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Chlorobenzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Chloroethane	ND	2.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Chloroform	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Chloromethane	ND	3.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
2-Chlorotoluene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
4-Chlorotoluene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
cis-1,2-DCE	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Dibromochloromethane	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Dibromomethane	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,1-Dichloroethane	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,1-Dichloroethene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,2-Dichloropropane	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 7 of 25

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1611262**

Date Reported: **11/15/2016**

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-004

Client Sample ID: MW-02

Collection Date: 11/4/2016 1:10:00 PM

Matrix: AQUEOUS

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							
1,3-Dichloropropane	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
2,2-Dichloropropane	ND	2.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,1-Dichloropropene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Hexachlorobutadiene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
2-Hexanone	ND	10		µg/L	1	11/10/2016 7:24:53 AM	W38593
Isopropylbenzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
4-Isopropyltoluene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
4-Methyl-2-pentanone	ND	10		µg/L	1	11/10/2016 7:24:53 AM	W38593
Methylene Chloride	ND	3.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
n-Butylbenzene	ND	3.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
n-Propylbenzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
sec-Butylbenzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Styrene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
tert-Butylbenzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
trans-1,2-DCE	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Trichlorofluoromethane	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Vinyl chloride	ND	1.0		µg/L	1	11/10/2016 7:24:53 AM	W38593
Xylenes, Total	ND	1.5		µg/L	1	11/10/2016 7:24:53 AM	W38593
Surr: 1,2-Dichloroethane-d4	91.3	70-130	%Rec		1	11/10/2016 7:24:53 AM	W38593
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec		1	11/10/2016 7:24:53 AM	W38593
Surr: Dibromofluoromethane	91.4	70-130	%Rec		1	11/10/2016 7:24:53 AM	W38593
Surr: Toluene-d8	97.6	70-130	%Rec		1	11/10/2016 7:24:53 AM	W38593

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 8 of 25

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1611262

Date Reported: 11/15/2016

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-005

Client Sample ID: MW-01

Collection Date: 11/4/2016 1:35:00 PM

Matrix: AQUEOUS

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							
1,2-Dibromoethane	ND	0.010		µg/L	1	11/10/2016 4:43:21 PM	28583
EPA METHOD 8260B: VOLATILES							
Benzene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Toluene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Ethylbenzene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Naphthalene	34	2.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1-Methylnaphthalene	11	4.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
2-Methylnaphthalene	11	4.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Acetone	ND	10		µg/L	1	11/11/2016 11:18:08 AM	W38603
Bromobenzene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Bromodichloromethane	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Bromoform	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Bromomethane	ND	3.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
2-Butanone	ND	10		µg/L	1	11/11/2016 11:18:08 AM	W38603
Carbon disulfide	ND	10		µg/L	1	11/11/2016 11:18:08 AM	W38603
Carbon Tetrachloride	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Chlorobenzene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Chloroethane	ND	2.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Chloroform	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Chloromethane	ND	3.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
2-Chlorotoluene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
4-Chlorotoluene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
cis-1,2-DCE	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Dibromochloromethane	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Dibromomethane	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,1-Dichloroethane	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,1-Dichloroethene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,2-Dichloropropane	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 9 of 25

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1611262**

Date Reported: **11/15/2016**

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-005

Client Sample ID: MW-01

Collection Date: 11/4/2016 1:35:00 PM

Matrix: AQUEOUS

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							
1,3-Dichloropropane	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
2,2-Dichloropropane	ND	2.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,1-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Hexachlorobutadiene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
2-Hexanone	ND	10		µg/L	1	11/11/2016 11:18:08 AM	W38603
Isopropylbenzene	32	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
4-Isopropyltoluene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
4-Methyl-2-pentanone	ND	10		µg/L	1	11/11/2016 11:18:08 AM	W38603
Methylene Chloride	ND	3.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
n-Butylbenzene	8.7	3.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
n-Propylbenzene	76	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
sec-Butylbenzene	5.8	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Styrene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
tert-Butylbenzene	1.2	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
trans-1,2-DCE	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Trichlorofluoromethane	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Vinyl chloride	ND	1.0		µg/L	1	11/11/2016 11:18:08 AM	W38603
Xylenes, Total	ND	1.5		µg/L	1	11/11/2016 11:18:08 AM	W38603
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	11/11/2016 11:18:08 AM	W38603
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	11/11/2016 11:18:08 AM	W38603
Surr: Dibromofluoromethane	104	70-130		%Rec	1	11/11/2016 11:18:08 AM	W38603
Surr: Toluene-d8	96.6	70-130		%Rec	1	11/11/2016 11:18:08 AM	W38603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1611262**

Date Reported: **11/15/2016**

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-006

Client Sample ID: MW-03

Collection Date: 11/4/2016 2:02:00 PM

Matrix: AQUEOUS

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							
1,2-Dibromoethane	ND	0.010		µg/L	1	11/10/2016 4:58:18 PM	28583
EPA METHOD 8260B: VOLATILES							
Benzene	8.8	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Toluene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Ethylbenzene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Naphthalene	2.2	2.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1-Methylnaphthalene	100	20		µg/L	5	11/11/2016 4:42:33 AM	W38603
2-Methylnaphthalene	120	20		µg/L	5	11/11/2016 4:42:33 AM	W38603
Acetone	ND	10		µg/L	1	11/11/2016 12:44:14 PM	W38603
Bromobenzene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Bromodichloromethane	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Bromoform	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Bromomethane	ND	3.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
2-Butanone	ND	10		µg/L	1	11/11/2016 12:44:14 PM	W38603
Carbon disulfide	ND	10		µg/L	1	11/11/2016 12:44:14 PM	W38603
Carbon Tetrachloride	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Chlorobenzene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Chloroethane	ND	2.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Chloroform	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Chloromethane	ND	3.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
2-Chlorotoluene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
4-Chlorotoluene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
cis-1,2-DCE	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Dibromochloromethane	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Dibromomethane	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,1-Dichloroethane	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,1-Dichloroethene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,2-Dichloropropane	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1611262**

Date Reported: **11/15/2016**

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-006

Client Sample ID: MW-03

Collection Date: 11/4/2016 2:02:00 PM

Matrix: AQUEOUS

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							
1,3-Dichloropropane	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
2,2-Dichloropropane	ND	2.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,1-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Hexachlorobutadiene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
2-Hexanone	ND	10		µg/L	1	11/11/2016 12:44:14 PM	W38603
Isopropylbenzene	6.7	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
4-Isopropyltoluene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
4-Methyl-2-pentanone	ND	10		µg/L	1	11/11/2016 12:44:14 PM	W38603
Methylene Chloride	ND	3.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
n-Butylbenzene	3.3	3.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
n-Propylbenzene	15	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
sec-Butylbenzene	2.1	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Styrene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
tert-Butylbenzene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
trans-1,2-DCE	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Trichlorofluoromethane	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Vinyl chloride	ND	1.0		µg/L	1	11/11/2016 12:44:14 PM	W38603
Xylenes, Total	ND	1.5		µg/L	1	11/11/2016 12:44:14 PM	W38603
Surr: 1,2-Dichloroethane-d4	91.7	70-130		%Rec	1	11/11/2016 12:44:14 PM	W38603
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	11/11/2016 12:44:14 PM	W38603
Surr: Dibromofluoromethane	91.2	70-130		%Rec	1	11/11/2016 12:44:14 PM	W38603
Surr: Toluene-d8	96.7	70-130		%Rec	1	11/11/2016 12:44:14 PM	W38603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 12 of 25

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1611262**

Date Reported: **11/15/2016**

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-007

Client Sample ID: MW-04

Collection Date: 11/4/2016 2:27:00 PM

Matrix: AQUEOUS

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							
1,2-Dibromoethane	ND	0.010		µg/L	1	11/10/2016 5:13:26 PM	28583
EPA METHOD 8260B: VOLATILES							
Benzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Toluene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Ethylbenzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Naphthalene	ND	2.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
1-Methylnaphthalene	4.3	4.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
2-Methylnaphthalene	4.5	4.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Acetone	ND	10		µg/L	1	11/11/2016 1:12:59 PM	W38603
Bromobenzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Bromodichloromethane	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Bromoform	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Bromomethane	ND	3.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
2-Butanone	ND	10		µg/L	1	11/11/2016 1:12:59 PM	W38603
Carbon disulfide	ND	10		µg/L	1	11/11/2016 1:12:59 PM	W38603
Carbon Tetrachloride	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Chlorobenzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Chloroethane	ND	2.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Chloroform	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Chloromethane	ND	3.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
2-Chlorotoluene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
4-Chlorotoluene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
cis-1,2-DCE	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Dibromochloromethane	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Dibromomethane	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
1,1-Dichloroethane	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
1,1-Dichloroethene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603
1,2-Dichloropropane	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1611262**

Date Reported: **11/15/2016**

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-007

Matrix: AQUEOUS

Client Sample ID: MW-04

Collection Date: 11/4/2016 2:27:00 PM

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch	Analyst: DJF
EPA METHOD 8260B: VOLATILES								
1,3-Dichloropropane	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
2,2-Dichloropropane	ND	2.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
1,1-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
Hexachlorobutadiene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
2-Hexanone	ND	10		µg/L	1	11/11/2016 1:12:59 PM	W38603	
Isopropylbenzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
4-Isopropyltoluene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
4-Methyl-2-pentanone	ND	10		µg/L	1	11/11/2016 1:12:59 PM	W38603	
Methylene Chloride	ND	3.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
n-Butylbenzene	ND	3.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
n-Propylbenzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
sec-Butylbenzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
Styrene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
tert-Butylbenzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
trans-1,2-DCE	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
Trichlorofluoromethane	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
Vinyl chloride	ND	1.0		µg/L	1	11/11/2016 1:12:59 PM	W38603	
Xylenes, Total	ND	1.5		µg/L	1	11/11/2016 1:12:59 PM	W38603	
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	11/11/2016 1:12:59 PM	W38603	
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	11/11/2016 1:12:59 PM	W38603	
Surr: Dibromofluoromethane	105	70-130		%Rec	1	11/11/2016 1:12:59 PM	W38603	
Surr: Toluene-d8	96.7	70-130		%Rec	1	11/11/2016 1:12:59 PM	W38603	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 14 of 25

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1611262

Date Reported: 11/15/2016

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-008

Client Sample ID: MW-05

Collection Date: 11/4/2016 3:00:00 PM

Matrix: AQUEOUS

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							
1,2-Dibromoethane	ND	0.010		µg/L	1	11/10/2016 5:43:38 PM	28583
EPA METHOD 8260B: VOLATILES							
Benzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Toluene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Ethylbenzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Naphthalene	ND	2.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
1-Methylnaphthalene	ND	4.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
2-Methylnaphthalene	ND	4.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Acetone	ND	10		µg/L	1	11/11/2016 5:39:38 AM	W38603
Bromobenzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Bromodichloromethane	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Bromoform	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Bromomethane	ND	3.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
2-Butanone	ND	10		µg/L	1	11/11/2016 5:39:38 AM	W38603
Carbon disulfide	ND	10		µg/L	1	11/11/2016 5:39:38 AM	W38603
Carbon Tetrachloride	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Chlorobenzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Chloroethane	ND	2.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Chloroform	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Chloromethane	ND	3.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
2-Chlorotoluene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
4-Chlorotoluene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
cis-1,2-DCE	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Dibromochloromethane	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Dibromomethane	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
1,1-Dichloroethane	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
1,1-Dichloroethene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603
1,2-Dichloropropane	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1611262**

Date Reported: **11/15/2016**

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-008

Client Sample ID: MW-05

Collection Date: 11/4/2016 3:00:00 PM

Matrix: AQUEOUS

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch	Analyst: DJF
EPA METHOD 8260B: VOLATILES								
1,3-Dichloropropane	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
2,2-Dichloropropane	ND	2.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
1,1-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
Hexachlorobutadiene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
2-Hexanone	ND	10		µg/L	1	11/11/2016 5:39:38 AM	W38603	
Isopropylbenzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
4-Isopropyltoluene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
4-Methyl-2-pentanone	ND	10		µg/L	1	11/11/2016 5:39:38 AM	W38603	
Methylene Chloride	ND	3.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
n-Butylbenzene	ND	3.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
n-Propylbenzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
sec-Butylbenzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
Styrene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
tert-Butylbenzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
trans-1,2-DCE	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
Trichlorofluoromethane	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
Vinyl chloride	ND	1.0		µg/L	1	11/11/2016 5:39:38 AM	W38603	
Xylenes, Total	ND	1.5		µg/L	1	11/11/2016 5:39:38 AM	W38603	
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%Rec	1	11/11/2016 5:39:38 AM	W38603	
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	11/11/2016 5:39:38 AM	W38603	
Surr: Dibromofluoromethane	97.2	70-130		%Rec	1	11/11/2016 5:39:38 AM	W38603	
Surr: Toluene-d8	97.1	70-130		%Rec	1	11/11/2016 5:39:38 AM	W38603	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1611262

Date Reported: 11/15/2016

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-009

Client Sample ID: TRIP BLANK

Collection Date:

Matrix: TRIP BLANK

Received Date: 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							
1,2-Dibromoethane	ND	0.010		µg/L	1	11/10/2016 5:58:38 PM	28587
EPA METHOD 8260B: VOLATILES							
Benzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Toluene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Ethylbenzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Naphthalene	ND	2.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
1-Methylnaphthalene	ND	4.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
2-Methylnaphthalene	ND	4.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Acetone	ND	10		µg/L	1	11/11/2016 6:08:06 AM	W38603
Bromobenzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Bromodichloromethane	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Bromoform	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Bromomethane	ND	3.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
2-Butanone	ND	10		µg/L	1	11/11/2016 6:08:06 AM	W38603
Carbon disulfide	ND	10		µg/L	1	11/11/2016 6:08:06 AM	W38603
Carbon Tetrachloride	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Chlorobenzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Chloroethane	ND	2.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Chloroform	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Chloromethane	ND	3.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
2-Chlorotoluene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
4-Chlorotoluene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
cis-1,2-DCE	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Dibromochloromethane	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Dibromomethane	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
1,1-Dichloroethane	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
1,1-Dichloroethene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603
1,2-Dichloropropane	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1611262**

Date Reported: **11/15/2016**

CLIENT: Intera, Inc.

Project: Abq Railyard

Lab ID: 1611262-009

Client Sample ID: TRIP BLANK

Collection Date:

Matrix: TRIP BLANK **Received Date:** 11/4/2016 3:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch	Analyst: DJF
EPA METHOD 8260B: VOLATILES								
1,3-Dichloropropane	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
2,2-Dichloropropane	ND	2.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
1,1-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
Hexachlorobutadiene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
2-Hexanone	ND	10		µg/L	1	11/11/2016 6:08:06 AM	W38603	
Isopropylbenzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
4-Isopropyltoluene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
4-Methyl-2-pentanone	ND	10		µg/L	1	11/11/2016 6:08:06 AM	W38603	
Methylene Chloride	ND	3.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
n-Butylbenzene	ND	3.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
n-Propylbenzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
sec-Butylbenzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
Styrene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
tert-Butylbenzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
trans-1,2-DCE	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
Trichlorofluoromethane	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
Vinyl chloride	ND	1.0		µg/L	1	11/11/2016 6:08:06 AM	W38603	
Xylenes, Total	ND	1.5		µg/L	1	11/11/2016 6:08:06 AM	W38603	
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%Rec	1	11/11/2016 6:08:06 AM	W38603	
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	11/11/2016 6:08:06 AM	W38603	
Surr: Dibromofluoromethane	98.9	70-130		%Rec	1	11/11/2016 6:08:06 AM	W38603	
Surr: Toluene-d8	100	70-130		%Rec	1	11/11/2016 6:08:06 AM	W38603	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1611262

15-Nov-16

Client: Intera, Inc.

Project: Abq Railyard

Sample ID	MB-28587	SampType:	MBLK	TestCode: EPA Method 8011/504.1: EDB							
Client ID:	PBW	Batch ID:	28587	RunNo: 38602							
Prep Date:	11/10/2016	Analysis Date:	11/10/2016	SeqNo: 1205730 Units: µg/L							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane		ND	0.010								

Sample ID	MB-28583	SampType:	MBLK	TestCode: EPA Method 8011/504.1: EDB							
Client ID:	PBW	Batch ID:	28583	RunNo: 38602							
Prep Date:	11/10/2016	Analysis Date:	11/10/2016	SeqNo: 1205731 Units: µg/L							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane		ND	0.010								

Sample ID	LCS-28583	SampType:	LCS	TestCode: EPA Method 8011/504.1: EDB							
Client ID:	LCSW	Batch ID:	28583	RunNo: 38602							
Prep Date:	11/10/2016	Analysis Date:	11/10/2016	SeqNo: 1205732 Units: µg/L							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane		0.092	0.010	0.1000	0	91.9	70	130			

Sample ID	LCS-28587	SampType:	LCS	TestCode: EPA Method 8011/504.1: EDB							
Client ID:	LCSW	Batch ID:	28587	RunNo: 38602							
Prep Date:	11/10/2016	Analysis Date:	11/10/2016	SeqNo: 1205733 Units: µg/L							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane		0.097	0.010	0.1000	0	97.4	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1611262

15-Nov-16

Client: Intera, Inc.**Project:** Abq Railyard

Sample ID	rb	SampType:	MBLK	TestCode: EPA Method 8260B: VOLATILES							
Client ID:	PBW	Batch ID:	W38593	RunNo: 38593							
Prep Date:		Analysis Date:	11/9/2016	SeqNo: 1205422 Units: µg/L							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	1.0								
Toluene		ND	1.0								
Ethylbenzene		ND	1.0								
Methyl tert-butyl ether (MTBE)		ND	1.0								
1,2,4-Trimethylbenzene		ND	1.0								
1,3,5-Trimethylbenzene		ND	1.0								
1,2-Dichloroethane (EDC)		ND	1.0								
1,2-Dibromoethane (EDB)		ND	1.0								
Naphthalene		ND	2.0								
1-Methylnaphthalene		ND	4.0								
2-Methylnaphthalene		ND	4.0								
Acetone		ND	10								
Bromobenzene		ND	1.0								
Bromodichloromethane		ND	1.0								
Bromoform		ND	1.0								
Bromomethane		ND	3.0								
2-Butanone		ND	10								
Carbon disulfide		ND	10								
Carbon Tetrachloride		ND	1.0								
Chlorobenzene		ND	1.0								
Chloroethane		ND	2.0								
Chloroform		ND	1.0								
Chloromethane		ND	3.0								
2-Chlorotoluene		ND	1.0								
4-Chlorotoluene		ND	1.0								
cis-1,2-DCE		ND	1.0								
cis-1,3-Dichloropropene		ND	1.0								
1,2-Dibromo-3-chloropropane		ND	2.0								
Dibromochloromethane		ND	1.0								
Dibromomethane		ND	1.0								
1,2-Dichlorobenzene		ND	1.0								
1,3-Dichlorobenzene		ND	1.0								
1,4-Dichlorobenzene		ND	1.0								
Dichlorodifluoromethane		ND	1.0								
1,1-Dichloroethane		ND	1.0								
1,1-Dichloroethene		ND	1.0								
1,2-Dichloropropane		ND	1.0								
1,3-Dichloropropane		ND	1.0								
2,2-Dichloropropane		ND	2.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 20 of 25

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1611262

15-Nov-16

Client: Intera, Inc.

Project: Abq Railyard

Sample ID	rb	SampType:	MBLK	TestCode: EPA Method 8260B: VOLATILES						
Client ID:	PBW	Batch ID:	W38593	RunNo: 38593						
Prep Date:		Analysis Date:	11/9/2016	SeqNo: 1205422 Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.3	10.00		93.1	70	130				
Surr: 4-Bromofluorobenzene	9.8	10.00		97.7	70	130				
Surr: Dibromofluoromethane	9.5	10.00		94.6	70	130				
Surr: Toluene-d8	9.8	10.00		98.1	70	130				

Sample ID	100ng lcs	SampType:	LCS	TestCode: EPA Method 8260B: VOLATILES						
Client ID:	LCSW	Batch ID:	W38593	RunNo: 38593						
Prep Date:		Analysis Date:	11/9/2016	SeqNo: 1205423 Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.7	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	21	1.0	20.00	0	103	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Detection Limit
 W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1611262

15-Nov-16

Client: Intera, Inc.

Project: Abq Railyard

Sample ID	100ng lcs	SampType:	LCS	TestCode: EPA Method 8260B: VOLATILES						
Client ID:	LCSW	Batch ID:	W38593	RunNo: 38593						
Prep Date:		Analysis Date:	11/9/2016	SeqNo: 1205423 Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21	1.0	20.00	0	106	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	98.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.1	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.9	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.5	70	130			
Surr: Toluene-d8	9.8		10.00		97.9	70	130			

Sample ID	rb	SampType:	MBLK	TestCode: EPA Method 8260B: VOLATILES						
Client ID:	PBW	Batch ID:	W38603	RunNo: 38603						
Prep Date:		Analysis Date:	11/10/2016	SeqNo: 1206487 Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1611262

15-Nov-16

Client: Intera, Inc.**Project:** Abq Railyard

Sample ID	rb	SampType:	MBLK	TestCode: EPA Method 8260B: VOLATILES							
Client ID:	PBW	Batch ID:	W38603	RunNo: 38603							
Prep Date:		Analysis Date:	11/10/2016	SeqNo: 1206487 Units: µg/L							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane		ND	2.0								
Dibromochloromethane		ND	1.0								
Dibromomethane		ND	1.0								
1,2-Dichlorobenzene		ND	1.0								
1,3-Dichlorobenzene		ND	1.0								
1,4-Dichlorobenzene		ND	1.0								
Dichlorodifluoromethane		ND	1.0								
1,1-Dichloroethane		ND	1.0								
1,1-Dichloroethene		ND	1.0								
1,2-Dichloropropane		ND	1.0								
1,3-Dichloropropane		ND	1.0								
2,2-Dichloropropane		ND	2.0								
1,1-Dichloropropene		ND	1.0								
Hexachlorobutadiene		ND	1.0								
2-Hexanone		ND	10								
Isopropylbenzene		ND	1.0								
4-Isopropyltoluene		ND	1.0								
4-Methyl-2-pentanone		ND	10								
Methylene Chloride		ND	3.0								
n-Butylbenzene		ND	3.0								
n-Propylbenzene		ND	1.0								
sec-Butylbenzene		ND	1.0								
Styrene		ND	1.0								
tert-Butylbenzene		ND	1.0								
1,1,1,2-Tetrachloroethane		ND	1.0								
1,1,2,2-Tetrachloroethane		ND	2.0								
Tetrachloroethene (PCE)		ND	1.0								
trans-1,2-DCE		ND	1.0								
trans-1,3-Dichloropropene		ND	1.0								
1,2,3-Trichlorobenzene		ND	1.0								
1,2,4-Trichlorobenzene		ND	1.0								
1,1,1-Trichloroethane		ND	1.0								
1,1,2-Trichloroethane		ND	1.0								
Trichloroethene (TCE)		ND	1.0								
Trichlorofluoromethane		ND	1.0								
1,2,3-Trichloropropane		ND	2.0								
Vinyl chloride		ND	1.0								
Xylenes, Total		ND	1.5								
Surr: 1,2-Dichloroethane-d4		10	10.00		105	70	130				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1611262

15-Nov-16

Client: Intera, Inc.
Project: Abq Railyard

Sample ID	rb	SampType:	MBLK	TestCode: EPA Method 8260B: VOLATILES						
Client ID:	PBW	Batch ID:	W38603	RunNo: 38603						
Prep Date:		Analysis Date:	11/10/2016	SeqNo: 1206487 Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.6		10.00		95.9	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	9.8		10.00		98.2	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode: EPA Method 8260B: VOLATILES						
Client ID:	LCSW	Batch ID:	W38603	RunNo: 38603						
Prep Date:		Analysis Date:	11/10/2016	SeqNo: 1206488 Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Chlorobenzene	20	1.0	20.00	0	101	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	108	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.7	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.7	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.8	70	130			
Surr: Toluene-d8	9.3		10.00		93.3	70	130			

Sample ID	1611262-005a ms	SampType:	MS	TestCode: EPA Method 8260B: VOLATILES						
Client ID:	MW-01	Batch ID:	W38603	RunNo: 38603						
Prep Date:		Analysis Date:	11/11/2016	SeqNo: 1206491 Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	100	5.0	100.0	0	103	70	130			
Toluene	100	5.0	100.0	0	104	70	130			
Chlorobenzene	100	5.0	100.0	0	101	70	130			
1,1-Dichloroethene	110	5.0	100.0	0	107	70	130			
Trichloroethene (TCE)	99	5.0	100.0	0	99.0	70	130			
Surr: 1,2-Dichloroethane-d4	46		50.00		92.6	70	130			
Surr: 4-Bromofluorobenzene	47		50.00		94.8	70	130			
Surr: Dibromofluoromethane	47		50.00		94.5	70	130			
Surr: Toluene-d8	47		50.00		93.6	70	130			

Sample ID	1611262-005a msd	SampType:	MSD	TestCode: EPA Method 8260B: VOLATILES						
Client ID:	MW-01	Batch ID:	W38603	RunNo: 38603						
Prep Date:		Analysis Date:	11/11/2016	SeqNo: 1206492 Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	100	5.0	100.0	0	102	70	130	1.80	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1611262

15-Nov-16

Client: Intera, Inc.

Project: Abq Railyard

Sample ID	161126-005a msd	SampType:	MSD	TestCode: EPA Method 8260B: VOLATILES						
Client ID:	MW-01	Batch ID:	W38603	RunNo: 38603						
Prep Date:		Analysis Date:	11/11/2016	SeqNo: 1206492 Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	100	5.0	100.0	0	102	70	130	1.76	20	
Chlorobenzene	98	5.0	100.0	0	98.4	70	130	2.58	20	
1,1-Dichloroethene	100	5.0	100.0	0	102	70	130	4.58	20	
Trichloroethene (TCE)	99	5.0	100.0	0	99.4	70	130	0.446	20	
Surr: 1,2-Dichloroethane-d4	48		50.00		96.0	70	130	0	0	
Surr: 4-Bromofluorobenzene	48		50.00		95.7	70	130	0	0	
Surr: Dibromofluoromethane	48		50.00		95.7	70	130	0	0	
Surr: Toluene-d8	48		50.00		95.9	70	130	0	0	

Sample ID	161126-005a ms	SampType:	MS	TestCode: EPA Method 8260B: VOLATILES						
Client ID:	MW-01	Batch ID:	W38603	RunNo: 38633						
Prep Date:		Analysis Date:	11/11/2016	SeqNo: 1207711 Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0.4404	108	70	130			
Toluene	21	1.0	20.00	0	104	70	130			
Chlorobenzene	21	1.0	20.00	0	104	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	108	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	107	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.7		10.00		97.2	70	130			

Sample ID	161126-005a msd	SampType:	MSD	TestCode: EPA Method 8260B: VOLATILES						
Client ID:	MW-01	Batch ID:	W38603	RunNo: 38633						
Prep Date:		Analysis Date:	11/11/2016	SeqNo: 1207712 Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0.4404	99.3	70	130	7.98	20	
Toluene	20	1.0	20.00	0	101	70	130	2.55	20	
Chlorobenzene	21	1.0	20.00	0	103	70	130	1.77	20	
1,1-Dichloroethene	20	1.0	20.00	0	100	70	130	7.30	20	
Trichloroethene (TCE)	20	1.0	20.00	0	99.1	70	130	8.00	20	
Surr: 1,2-Dichloroethane-d4	10		10.00		99.7	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130	0	0	
Surr: Dibromofluoromethane	9.6		10.00		96.3	70	130	0	0	
Surr: Toluene-d8	9.8		10.00		98.1	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: INT

Work Order Number: 1611262

ReptNo: 1

Received by/date: *JM*

11/04/16

Logged By: Ashley Gallegos

11/4/2016 3:30:00 PM

AG

Completed By: Ashley Gallegos

11/4/2016 6:14:39 PM

AG

Reviewed By:

JG 11/07/16

Chain of Custody

1. Custody seals intact on sample bottles?

Yes

No

Not Present

2. Is Chain of Custody complete?

Yes

No

Not Present

3. How was the sample delivered?

Client

Log In

4. Was an attempt made to cool the samples?

Yes

No

NA

5. Were all samples received at a temperature of >0°C to 6.0°C

Yes

No

NA

6. Sample(s) in proper container(s)?

Yes

No

7. Sufficient sample volume for indicated test(s)?

Yes

No

8. Are samples (except VOA and ONG) properly preserved?

Yes

No

9. Was preservative added to bottles?

Yes

No

NA

10. VOA vials have zero headspace?

Yes

No

No VOA Vials

11. Were any sample containers received broken?

Yes

No

of preserved bottles checked for pH:
<2 or >12 unless noted

Adjusted?

Checked by:

12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody)

Yes

No

13. Are matrices correctly identified on Chain of Custody?

Yes

No

14. Is it clear what analyses were requested?

Yes

No

15. Were all holding times able to be met?
(If no, notify customer for authorization.)

Yes

No

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?

Yes

No

NA

Person Notified:	Date
By Whom:	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	
Client Instructions:	

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Not Present			

