

December 28, 2016



Alameda County Environmental Health
1131 Harbor Bay Pkwy
Alameda, CA 94502

Re: Phase II Submittal to ACEH Website (Case# RO3226)

To Whom It May Concern:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,

DocuSigned by:
Ronnie Turner
6EBA61229E5C49F...

12/28/2016
Date: _____

Ronnie Turner
Turner Development Resource Group

DocuSigned by:
Bradford Flewelling
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12/28/2016
Date: _____

Brad Flewelling
CEF Realty Advisors

Type of Services	Soil, Ground Water, and Soil Vapor Quality Evaluation
Location	914 W. Grand Avenue Oakland, California
Client	Turner Resource Development Group 4100 Redwood Road, Suite 170 Oakland, California 94619 CEF Realty Advisors, INC. 882 Wood Street Oakland, California 94607
Project Number	914-1-3
Date	December 28, 2016



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Type of Services	Soil, Ground Water, and Soil Vapor Quality Evaluation
Location	914 W. Grand Avenue Oakland, California

SECTION 1: INTRODUCTION

This report presents the results of the Soil, Ground Water, and Soil Vapor Quality Evaluation performed at 914 West Grand Avenue, 2220, 226 and 2236 Myrtle Street, and 2277 and 2281 Market Street in Oakland, California (Site) as shown on Figures 1 and 2. This report was prepared for Turner Development Resource Group / CEF Realty Advisors, Inc. (TCD/CEF) in accordance with our Agreement dated November 8, 2016 (Agreement).

TCD/CEF is preparing the Site for residential development. Current plans consist of a 142-unit, six-level apartment building constructed with a concrete podium. The ground level will consist of at-grade parking, with a retail/commercial area at the southwest corner of the project. The ground floor of the planned development is shown on Figure 2. TCD/CEF entered into a Voluntary Cleanup Agreement (VCA) with Alameda County Department of Environmental Health (County Health) for oversight associated with investigation and soil management activities.

On October 4, 2016, Cornerstone submitted a Conceptual Site Model and Data Gap Analysis work plan (Work Plan) to ACDEH for the evaluation of soil, ground water, and soil vapor at the site. The purpose of the CSM and work plan was to provide information that will be used for the preparation of a Soil Management Plan (SMP) in support of the planned residential development. An addendum to the Work Plan was submitted after comments from the ACDEH on November 3, 2016. The work plan was approved on November 3, 2016.

SECTION 2: SITE BACKGROUND AND ENVIRONMENTAL SITE HISTORY

2.1 SITE HISTORY

The northern portion of the Site was historically occupied by single-family dwellings from the early 1900s until the 1960s. The central portion of the Site has been occupied by various commercial businesses since at least 1925 including the Imperial Electric Sign Company, Gridd Stone Company; Bay Cities Venetian Blind Company; Lorentzen Company Linoleum and Carpet; Loralite Company; Bell Sheet Metal Company; The Oakland Terrazzo Company; and A&C Truck Repair. The southern portion of the Site has historically been used by automotive filling and repair businesses since approximately 1963 and includes Lean's Mohawk Service Gasoline Station, LJ Auto Service, 3A Tire Service, and Courtesy Auto Clinic. During the 2015 Phase I ESA, (Salem Engineering, 2015) the Site occupants were observed to be Enrique's Auto Repair and West Oakland Tire Repair (914 West Grand Avenue), and JAC Truck Repair (2236 Myrtle Street). The gasoline service station appears to have operated from approximately

the mid-1960s to at least the mid-1970s. The remainder of the Site was vacant or used for storage purposes.

2.2 PREVIOUS ENVIRONMENTAL STUDIES

2.2.1 On-Site Investigations

In 2005, Aqua Science performed a Phase II Investigation that consisted of the collection of soil samples from nine locations and ground water grab samples from two locations. Soil samples were collected to depths of up to approximately 11½ feet. Elevated concentrations of gasoline-range petroleum hydrocarbons (TPHg) (2,100 milligrams per kilogram [mg/kg]); diesel-range petroleum hydrocarbons (TPHd) (370 mg/kg); and the volatile organic compounds (VOCs) ethylbenzene (27 mg/kg), total xylenes (6.1 mg/kg), and naphthalene (20 mg/kg) were detected in the approximately 11½ foot soil sample collected from boring BH-B, located at the southwest corner of the Site near the former gasoline service station and the south (up-gradient) property boundary. Ground water grab samples collected detected TPHg (40,000 micrograms per liter [µg/L]), oil-range petroleum hydrocarbons (TPHo) (3,300 µg/L), TPHg (150,000 µg/L), dissolved lead (42 µg/L), ethylbenzene (4,500 µg/L), total xylenes (1,800 µg/L), and naphthalene (820 µg/L). A free product sheen reportedly was also observed in ground water while advancing this boring. The approximate locations of former sampling locations are shown on Figure 2.

In 2012, Salem performed a series of Site investigations that consist of a geophysical survey and soil, soil vapor, and ground water sample collection. In February 2012, a geophysical survey identified three subsurface anomalies and several areas of disturbed soil on the western side of 914 West Grand Avenue. However, many miscellaneous items (i.e., cars, car parts, etc.) were present on-Site that could have affected the results of the survey. A follow-up geophysical survey was performed in May 2012 after these items were cleared. The follow-up survey did not identify the three subsurface anomalies. A pothole investigation was conducted in the areas of disturbed fill. The fill materials encountered at these locations reportedly had a petroleum odor. Salem concluded that these areas formerly contained underground storage tanks (USTs) associated with the historic filling station. No USTs were encountered during the potholing.

In February 2012, Salem collected soil and soil vapor samples from the Site. The soil samples were collected along a railroad spur that was formerly located on-Site, and were analyzed for lead and arsenic. The detected lead and arsenic concentrations were below the residential screening criteria and published background levels. The concentration of benzene detected in soil vapor exceeded its current Tier 1 Environmental Screening Level (ESL; Water Board, 2016) of 48 micrograms per cubic meter (µg/m³) in 1 of 14 samples analyzed (sample B-3; 520 µg/m³). This elevated benzene concentration was detected in a soil vapor sample collected from a depth of approximately 10 feet and near the reported former UST location. Benzene was not detected in the sample collected from a depth of 5 feet at this location, or in the other soil vapor samples analyzed.

Tetrachloroethene (PCE, a common dry cleaning compound), was detected in soil vapor sample B-5 at a depth of 10 feet. PCE was not detected in the sample collected at B-5 from a depth of 5 feet or in the other soil vapor samples analyzed.

In May 2012, Salem installed three ground water wells (MW-1, MW-2, and MW-3). Ground water was observed at a depth of approximately 10 feet; no free product was observed. The ground water flow reportedly was to the northwest. No VOCs, TPHd, or TPHg were detected in

the ground water samples collected from well MW-2, which was installed north of the suspected former UST location. Chlorinated VOCs (cis-1,2-dichloroethene [cDCE] and trichloroethene [TCE]) were detected in the samples collected from MW-3, which was installed east of the former UST location and near the up-gradient property boundary. Benzene, ethylbenzene, naphthalene, xylenes, and TPHg were detected above their current ground water ESLs in the sample collected from MW-1, which was installed adjacent to the former UST locations. Salem concluded that UST impacts are present, but appeared to be limited to the area immediately adjacent to the former UST locations.

2.2.2 Off-Site Investigations

Readily available information obtained from the Geotracker website for adjacent properties was reviewed for the following purposes: 1) Evaluate whether petroleum hydrocarbons detected in ground water beneath the Site may be from off-Site sources based on off-Site sampling data and reported ground water flow directions, and; 2) Identify ground water quality results on neighboring properties that may be useful in determining whether off-Site an investigation is necessary once the data gap investigation described in Section 4 is completed. A summary of selected off-Site information is presented below, and selected ground water quality data is presented on Figure 9. Historical service stations include a service station located approximately 70 feet east of the Site (up-gradient to cross-gradient of the Site), across Market Street; no information was available for this service station on the state Geotracker website.

The Burke Property

The Burke Property is located at 949 West Grand Avenue and is adjacent and south of the Site, across West Grand Avenue. This property is listed in the leaking underground storage tank (LUST) database. According to documents obtained from the Water Board's Geotracker Database (The Consulting Group, 2012), a dry cleaning facility and automotive storage/repair business were formerly located at this property. Several soil and ground water investigations were conducted at this property between 2002 and 2005. Analyses of these samples identified TPHg, TPHd, fuel-related VOCs (benzene, toluene, ethylbenzene, and xylenes [BTEX]), and chlorinated VOCs (cDCE, TCE, and PCE). Ground water grab samples collected from the north portion of the Burk property, and approximately 90 feet south (up-gradient) of the Site, detected up to 8,800 µg/L TPHg, 18,000 µg/L TPHd, 9.8 µg/L benzene and 6.2 µg/L TCE (Golden Gate Tank Removal, 2006). Based on ground water flow direction measured on-Site and on the nearby Arco station (discussed below), the Burke property appears to be located up-gradient of the Site with respect to the shallow ground water flow direction.

According to documents filed with ADCEH, two monitoring wells (MW-1 and MW-3) are located the Burke Property, and one monitoring well (MW-2) is located on Myrtle Street approximately 150 feet south of the Site. Quarterly monitoring reportedly was conducted in 2005, and one sampling event reportedly was conducted in June 2012. VOCs were not detected in wells MW-1 and MW-3. However, free product reportedly was observed in monitoring well MW-2. The free product thickness was not provided. Laboratory analysis of the free product from MW-2 detected the following: 16,000 mg/kg 1,2,4-trimethylbenzene; 12,000 mg/kg 1,3,5-trimethylbenzene; 710 mg/kg 4-isopropyltoluene; 17,000 mg/kg toluene; 870,000 mg/kg TPHg; 3,600 mg/kg isopropylbenzene; 690 mg/kg xylenes; 7,100 mg/kg naphthalene 9,100 n-butylbenzene; 15,000 mg/kg n-propylbenzene; 2,300 mg/kg sec-butylbenzene; 190,000 mg/kg TPHd, 250,000 mg/kg TPH as Stoddard solvent, and; 300,000 mg/kg TPH as jet fuel (The Consulting Group, August 9, 2012).

MAC Auto Repair Facility

The MAC Auto Repair facility was located at 905 West Grand Avenue (adjacent and south of the Site across West Grand Avenue). According to documents reviewed (Delta Environmental Labs, 1999), soil and ground water impacts were discovered during the removal of three USTs in 1999. The UST pit was over-excavated to further remove petroleum-impacted soil. After removal, the DEH indicated that *“very low concentrations of contaminants remain in the immediate former underground tank pit”* and *“the contaminant plume appears contained within the site”*. The DEH granted closure in a letter dated March 6, 2000. Based on the information reviewed, the impacts from this leaking UST are not expected to significantly impact the Site.

ARCO Station #2169

ARCO Station #2169 is located at 889 West Grand Avenue (east of Market Street and south of Grand Avenue). According to documents reviewed (Broadbent, 2014), ground water contamination does not appear to have migrated significantly off of the Arco property. During quarterly and semi-annual ground water monitoring performed between 2000 and 2014, the ground water flow direction reportedly was estimated to range between the northeast to northwest.

2240 Filbert Street

City Ventures is developing the property adjacent to the north of the site (various parcels) and the property across Myrtle Street (2240 Filbert Street) to the west of the site. City Ventures submitted to ACDEH a SMP for excavation of near-surface soil with lead contamination on the adjacent property. The SMP summarized ground water sampling performed on the City Ventures property in 1994 and 2005. In 2005, five ground water grab samples were collected from the property adjacent to the north. Laboratory analyses of these samples detected elevated concentrations of TPHg (up to 110,000 ug/L) in two samples collected near Market Street, with the highest concentration detected in the sample nearest 2281 Market Street (see Figure 9). Laboratory analyses of the other three samples did not detect TPHg or VOCs. Based on the ground water flow direction, the TPHg detected on the adjacent property appears likely to be associated with a former service station to the east of the Site.

The SMP also summarized ground water analytical results for samples collected in 1994 from the southeast corner of the City Ventures property and directly across Myrtle Street from 914 West Grand Avenue (see Figure 9). Laboratory analyses of ground water samples collected from one monitoring well and three exploratory borings located nearest to the site did not detect TPHg, benzene, toluene, ethylbenzene or xylenes, with the exception of 100 ug/L TPHg detected in one of the samples. These ground water sample locations are located approximately 60 to 70 feet down-gradient of the former on-Site service station. Because the former on-Site service station pre-dates the 1994 sampling event, a significant on-Site release likely would have been detected in the 1994 sample results.

2.3 AUGUST 2016 GROUND WATER SAMPLING

On August 26, 2016, the three on-Site ground water monitoring wells were sampled to evaluate current ground water quality and flow direction. Based on the measured depth to ground water and surveyed wellhead elevations, the ground water flow was measured to the northwest (see Figure 5).

The ground water samples were collected using low flow methodology in accordance with the August 15, 2016 Scope of Work submitted to County Health.

The ground water samples were analyzed for the following:

- Volatile organic compounds (VOCs) and gasoline-range petroleum hydrocarbons (TPHg) (EPA Test Method 8260).
- Total petroleum hydrocarbons in the diesel range (TPHd) and motor oil (TPHmo) (EPA Test Method 8015) with and without silica gel cleanup.

Laboratory analyses of ground water samples collected from well MW-3 detected 150 ug/L TPHg, 53 ug/L trichloroethylene (TCE), 190 ug/L cis-dichloroethene (DCE) and 1.8 ug/L vinyl chloride. Monitoring well MW-3 is located within 914 West Grand Avenue along the southern portion of the property (Figure 5). Laboratory analyses of ground water samples collected from the monitoring wells MW-1 and MW-2 and did not detect TPH or VOCs above laboratory detection limits.

2.4 PURPOSE

The objectives of this investigation were to address data gaps identified in the Work Plan, to determine soil, ground water, and soil vapor quality at the Site.

2.5 SCOPE OF WORK

As presented in the Work Plan (October 4, 2016), the scope of work performed for this investigation included the following:

- Drilling and logging of 21 exploratory borings to depths of 5 to 20 feet for the collection of soil and ground water grab samples for laboratory analyses;
- Installation of 4 temporary soil vapor probes from soil vapor sample collection;
- Preparation of this report, figures, cross-sections and data tables.

Deviations from the Work Plan included:

- A silica gel cleanup was performed on samples which concentrations of TPHd or TPHo exceeded the ESL. This deviation was approved by the ACDEH on November 8, 2016;
- An insufficient amount of ground water was encountered in borings EB-4, EB-5, EB-6 and GW-4 to collect samples. At these locations, a soil sample collected from the shallow water bearing zone was submitted for laboratory analyses and/or soil samples from the water bearing zone were monitored in the field for vapors using a PID;
- At EB-7, insufficient ground water was encountered for a full suite of analysis, TPHg/VOCs were the only analyses for this sample.

The limitations for this investigation are presented in Section 5.

SECTION 3: SUBSURFACE INVESTIGATION

3.1 PRE-FIELD ACTIVITIES

Prior to performing field work, Cornerstone contacted Underground Service Alert more than 48 hours before beginning drilling activities. A drilling permit was obtained from Alameda County Public Works Agency (ACPWA). A copy of the permit is included in Appendix A. Cornerstone coordinated with Penecore Drilling, of Woodland, California, a licensed drilling contractor possessing a C-57 contractor's license (#906899) issued by the State of California, to schedule the sampling activities.

3.2 EXPLORATORY BORINGS

Subsurface investigation activities were performed on November 9 and 10, 2016, using hydraulic drilling equipment. Seventeen exploratory borings (EB-1 through EB-17) were advanced to depths of approximately 5 feet to 20 feet for the collection of soil samples; ground water grab sample collection were attempted at seven of these locations. Four additional borings were advanced to approximately 20 feet for the collection ground water grab samples (GW-1 through GW-4). Four borings were advanced to depths of approximately 7 feet to 10 feet to collect soil vapor samples (SV-1 through SV-4).

The locations and depths of these borings are listed below:

- 2220 Myrtle Street: EB-5 and EB-11 (15 feet), GW-2 and GW-4 (20 feet), and SV-2 (10 feet)
- 2226 Myrtle Street: EB-1 (5 feet) and GW-1 (20 feet)
- 2236 Myrtle Street: EB-2 (5 feet)
- 2277 and 2281 Market Street: EB-3 (5 feet) and EB-4 (20 feet)
- 914 West Grand Avenue: EB-6, EB-8, and EB-9 (20 feet); EB-7, EB-10 through EB-17 (15 feet); GW-3 (20 feet); SV-1, SV-3 and SV-4 (5 feet)

The exploratory borings were advanced using limited access direct push technology equipped with a Dual Wall Sampling System. The Dual Wall Sampling System helps reduce cross contamination between sampling intervals. The Dual Wall Sampler was comprised of two main components: an exterior steel casing and an inner sample barrel (Single Wall Sampler). The outer casing had a 2-inch outer diameter (OD) and a 1.5-inch inner diameter (ID). The sample barrel (Single Wall Sampler) was 5 feet in length with a 1.375-inch outside diameter (OD) and a 1-inch inner diameter (ID). The Dual Wall sample barrel was loaded with a 5-foot acetate liner and installed inside the outer casing. The outer drive casing and inner sample barrel were then hydraulically pushed to a depth of approximately 5 feet. As these tools were advanced, the inner sampling barrel collected the soil core sample. This sampler was then retrieved while the outer casing remained in place, protecting the integrity of the hole. A new sampler was lowered into place and advanced another 5 feet to collect the next soil sample. This process continued until a desired depth was reached. The borings were advanced approximately 5 feet to 10 feet into the first water yielding zone.

3.2.1 Subsurface Materials

The subsurface materials generally consisted of clays grading to sandy clay or clayey sands up to depths of approximately 10 feet. Lenses of sands and gravels were encountered between 8

feet and 20 feet and were interbedded with clay. Course gravel was encountered in several of the borings at depths between approximately 12 and 15 feet. In boring EB-6, we observed potential tank backfill material consisting of poorly graded sands within in the upper approximately 5 feet . A blue-green discoloration and petroleum odors were also observed in this boring at depths of approximately 12 to 13 feet. The lithologic observations are included on the boring logs in Appendix A. Lithologic cross sections for lines A-A' and B-B' (Figure 2) are presented as Figures 7 and 8.

3.2.2 Organic Vapor Readings

Soil samples retrieved from the monitoring well borings were monitored with a MiniRAE 3000 Organic Vapor Meter (OVM) to record VOC vapors. Organic vapor readings typical of background concentrations (less than 1 part per million by volume [ppm_v]) were recorded in boring EB-1 through EB-5, EB-7, EB-8, EB-10, EB-11, EB-15, EB-17, and GW-4. Moderate OVM readings (up to 250 ppm_v) were recorded in soil samples collected from borings GW-1 and GW-2. More elevated concentrations (up to 1,000 ppm_v) were detected in soil collected from boring EB-6, 9, 12, 13, 16 and GW-3. The highest OVM reading (greater than 1,000 ppm_v) was detected in EB-14. The elevated OVM readings were detected in samples collected between depths of 10 to 15 feet, except for boring EB-14 where elevated OVM readings were detected in samples collected from depths of 6 to 14 feet. OVM readings are listed on the boring logs presented in Appendix A.

3.3 SOIL SAMPLE COLLECTION AND LABORATORY ANALYSES

The borings locations were selected to evaluate the data gaps identified in the Work Plan, and from comments from the ACDEH. Based on field observations and OVM readings, 99 soil samples were collected in acetate liners from borings EB-1 through EB-17 and boring GW-3 for laboratory analyses. The soil samples were capped, labeled with a unique identification number, and placed in an ice-chilled cooler for transport to the project laboratory under chain of custody control. Samples analyzed for VOCs will be collected in three 5-gram Core-N-One capsules.

Sample intervals were targeted using field observations, OVM measurements, and visible signs of apparent contamination. The samples collected were analyzed for a variety of analyses including: 17 California Assessment Manual (CAM) metals (EPA Test Method 6000/7000), TPHd and TPHo (EPA Test Method 8015) with and without a silica gel cleanup, VOCs and TPHg (EPA Test Method 8260B), polynuclear aromatic hydrocarbons (PAHs) (EPA Test Method 8270SIM), organochlorine pesticides (OCPs) (EPA Test Method 8081), and polychlorinated biphenyls (PCBs) (EPA Test Method 8082).

3.4 GROUND WATER COLLECTION AND LABORATORY ANALYSES

On November 10, 2016, ground water grab samples were attempted from 11 locations (GW-1 to GW-4, and EB-4 to EB-10) to further evaluate ground water quality (Figure 2). The borings were advanced to depths of approximately 15 to 20 feet below the ground surface. At each location, a section of slotted polyvinyl chloride (PVC) slotted pipe was lowered into the boring to facilitate sample collection. Ground water grab samples were collected from each boring using a peristaltic pump and new polyethylene tubing. New tubing was used at each sample location to eliminate the potential for cross contamination of samples.

The sampling order for ground water container filling proceeded from most volatile to least volatile compounds. Ground water grab samples were collected in appropriate containers and

labeled with the sample ID. Samples were placed in an ice-chilled cooler and transported to a state-certified laboratory with chain of custody documentation. The ground water samples were analyzed for TPHd, TPHo, TPHg, and VOCs.

Insufficient ground water was encountered in borings EB-4, EB-5, EB-6, and GW-4. At boring EB-7, sufficient ground water was not encountered for full suite of analysis, only TPHg/VOC analysis was performed at this location.

3.5 SOIL VAPOR COLLECTION AND LABORATORY ANALYSES

On November 9 and 10, 2016, Cornerstone oversaw the installation of four temporary soil vapor probes (SV-1, SV-2, SV-3, and SV-4). The temporary soil vapor probes were installed following in general accordance with the July 2015 document entitled “Advisory – Active Soil Gas Investigations”, prepared by the Department of Toxic Substances and Control and the California Regional Water Quality Control Board, Los Angeles Region.

3.5.1 Temporary Soil Vapor Probe Installation and Sample Collection

The four temporary soil vapor probes were installed to depths of approximately 7 feet (SV-1, SV-3, and SV-4) and 10 feet (SV-2). These depths correspond to approximately 5 feet below the excavation depths for the concrete floors/foundations and, for SV-2, elevator pit excavation depth. Each probe was completed with stainless steel expendable tip and screen affixed to stainless steel tubing. Each probe was constructed by first placing approximately ½ foot of coarse aquarium-type sand into the bottom of the boring. The stainless steel tip and tubing was then lowered into the boring via a tremie pipe. Additional sand was then placed in the boring via tremie when needed to create an approximately ½-foot sand pack interval around the vapor tip. Approximately ½-foot of granular bentonite was placed on top of the sand pack. Hydrated bentonite was then placed down the boring; the mixture consisted of approximately 50 percent water to bentonite and was placed in less than ½ foot lifts to just below the surface. The stainless steel tubing was labeled with depth of placement and capped utilizing a vapor-tight Swagelok valve set in the “off” position.

The temporary vapor probes were sampled November 10, 2016. A 167 milliliters-per-minute flow regulator inclusive of a particulate filter was fitted to the shut-off valve and the other end to a “T” fitting. A Summa canister was connected to the “T” fitting. The other end of the “T” fitting was affixed to a digital vacuum gauge and a 1-liter Summa canister utilized for purging.

A minimum 10-minute vacuum tightness test was performed on the manifold and connections by opening and closing the 1-liter purge canister valve and applying and monitoring a vacuum on the vacuum gauge. The sample shut-off valve on the downhole side of the sampling manifold remained in the “off” position. When gauge vacuum was maintained for at least 10 minutes without any noticeable decrease (less than approximately 0.1 inches of mercury (Hg) for properly connected fittings), purging began. The downhole shut off valve was opened and approximately three purge volumes of vapor were removed using the purging 1-liter Summa. The volume of vapor removed was verified by the calculated versus observed pressure drop in the purging Summa canister. The purge volume was calculated based on the length and inner diameter of the sampling probe and the connected sampling tubing and equipment. Thus, the sand pack vapor space was not included in the purge volume calculation.

Isopropyl alcohol (2-propanol) was used as a leak detection compound by placing introducing this compound to the SV-1 sampling shroud. To confirm the isopropyl alcohol atmosphere, one

confirmation Tedlar bag sample was collected from the shroud atmosphere through the sampling port of the PID. The Tedlar bag sample collected from the SV-1 shroud contained 2-propanol at a concentration of 220,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). 2-propanol was not detected above the laboratory reporting limit of 15,000 $\mu\text{g}/\text{m}^3$ in soil vapor sample collected from probe SV-1. Based on the absence of 2-propanol in this soil vapor sample, the sample trains appear tight, and no significant leakage occurred.

3.6 SOIL VAPOR LABORATORY ANALYSES

Four soil vapor samples were collected and submitted under a chain of custody to state certified analytical laboratory. The samples were analyzed for VOCs and TPHg (EPA Test Method TO-15), and methane, carbon dioxide, and oxygen (ASTM D-1946).

SECTION 4: SUMMARY OF ANALYTICAL DATA

Cornerstone compared detected contaminants of potential concern to Tier 1 Environmental Screening Levels (ESLs)¹. For compounds where ESLs have not been established, detections were compared to RSLs² using a Hazard Quotient of 0.1 for non-carcinogenic compounds. Metal concentrations also were compared to natural background/ambient concentrations (Scott, 1991 and Duverge, 2011)³. The results are summarized below. Detected compounds are presented on Figures 3 through 6 and in Table 1 (Metals), Table 2 (Petroleum Hydrocarbons and Volatile Organic Compounds), Table 3 (Pesticides and PCBs), Table 4 (PAHs) and Table 5 (Ground Water) and Table 6 (Soil Vapor). Chain of custody documentation and laboratory analytical reports are presented in Appendix B.

4.1 SUMMARY OF SOIL ANALYTICAL DATA

4.1.1 Metals

- Lead was detected at concentrations exceeding the Tier 1 ESL of 80 milligram per kilogram (mg/kg) in seven samples analyzed at concentrations ranging from 92.4 mg/kg to 1,100 mg/kg. The detected concentration in EB-17 (0-1) exceeded the Total Threshold Limit Concentration (TTLC) of 1,000 mg/kg established by Title 22 of the California Code of Regulations (CCR) for determining a non-RCRA (California) Hazardous Waste. In our experience, concentrations exceeding 50 mg/kg may exceed the Soluble Threshold Limit Concentration (STLC) designation for a non-RCRA Hazardous Waste.

¹ Environmental Screening Level (ESL), San Francisco Bay, Regional Water Quality Control Board, February, 2016

² Regional Screening Levels are used to screen sites for potential human health concerns where releases of chemicals to soil have occurred. They are risk-based concentrations derived from standardized equations combining exposure information assumptions with EPA toxicity data. RSLs are considered by the EPA to be protective for humans (including sensitive groups) over a lifetime; however, RSLs are not always applicable to a particular site and do not address non-human health endpoints, such as ecological impacts. The RSLs referenced in this report are generic; they are calculated without site-specific information. For non-carcinogenic compounds, the Hazard Quotient is the ratio of potential exposure to a substance and the level at which no adverse effects are expected. If the Hazard Quotient is calculated to be less than 1, then no adverse health effects are expected as a result of exposure. As a conservative comparison, the RSLs presented in this report for non-carcinogenic compounds are based on a Hazard Quotient of 0.1. Thus, for a single compound, raising the Hazard Quotient from 0.1 to 1 raises its respective RSL by an order of magnitude.

³ Naturally occurring background concentrations of metals, such as arsenic, nickel and chromium, amongst others, in soil may exceed their respective screening levels. Cal/EPA generally does not require cleanup of soil to below background concentrations. Thus, for the metals detected, these data also were compared to regional published background concentrations.

- Nickel was detected in one sample EB-9 (13-13.5) at a concentration of 97.9 mg/kg, which exceeded its Tier 1 ESL of 83 mg/kg.
- The remaining metal concentrations were not detected above their respective Tier 1 ESLs and/or natural background/ambient concentrations.

4.1.2 Diesel and Oil Range Petroleum Hydrocarbons

- TPHd was detected in two samples (290 mg/kg in EB-9 [13-13.5] and 240 mg/kg in EB-16 1[2-12.5]) exceeding the Tier 1 ESL of 230 mg/kg. These samples were additionally analyzed using a silica gel cleanup to remove naturally occurring organics, and the detected concentrations were 270 mg/kg (EB-9) and 190 mg/kg (EB-16).
- TPHo was detected at concentration up to 1,200 mg/kg, which is below its Tier 1 ESL of 5,100 mg/kg

4.1.3 VOCs

- TPHg was detected at concentrations in two samples (670 mg/kg in EB-16 [12-12.5 feet] and 490 mg/kg in GW-3 [13-13.5 feet]) exceeding its Tier 1 ESL of 100 mg/kg.
- Naphthalene was detected at concentrations up to 30 mg/kg and exceeded its Tier 1 ESL of 0.023 mg/kg in four samples (EB-9 at 13-13.5 feet; EB-13 at 11-12 feet; EB-14 at 12-13 feet; GW-3 at 13-13.5 feet).
- VOCs ethylbenzene, 2-butanone (MEK), 2-hexanone, acetone, isopropylbenzene, n-butylbenzene, n-propylbenzene and sec-butylbenzene were detected at concentrations less than their respective Tier 1 ESLs or RSLs.

4.1.4 Organochlorine Pesticides

- The OCP concentrations detected did not exceed their respective residential screening criteria or hazardous waste thresholds.

4.1.5 Polychlorinated Biphenyls (PCBs)

- The PCB compounds detected were below the Tier 1 ESL of 0.25 mg/kg.

4.1.6 PAHs

- Benzo[a]pyrene (0.24 mg/kg), benzo[b]fluoranthene (0.25 mg/kg), and dibenz(a,h)anthracene (0.022 mg/kg) was detected in the sample collected from EB-3 (0-1 foot). Detected concentrations of these chemicals exceeded their Tier 1 ESLs of 0.016 mg/kg, 0.16 mg/kg, and 0.016 mg/kg, respectively. All other PAH compounds detected were below their respective residential screening criteria.

4.2 SUMMARY OF GROUND WATER ANALYTICAL DATA

- TPHd was detected at concentrations up to 1,080 µg/L and exceeded its Tier 1 ESL of 100 mg/kg in five samples. These five samples were then analyzed using a silica gel cleanup; TPHd was detected at concentrations up to 850 µg/L and exceeded the Tier 1 ESL in two samples (EB-9 and EB-10).
- Laboratory analysis of sample GW-1 detected TPHo at a concentration of 370 µg/L, which exceeded the ground water Tier 1 ESL of 100 µg/L. GW-1 was reanalyzed for TPHo with silica gel cleanup, and was not detected above the laboratory reporting limit.
- TPHg was detected in 3 of 7 samples at concentrations ranging from 61 µg/L to 1,300 µg/L. The detected concentrations in samples EB-9 (240 µg/L) and EB-10 (1,300 µg/L) exceeded the ground water Tier 1 ESL of 100 µg/L.
- Benzene (1.4 µg/L) and ethylbenzene (60 µg/L) was detected in EB-10 at concentrations exceeding the ground water Tier 1 ESL of 1 µg/L and 13 µg/L, respectively.
- Naphthalene was detected as a VOC in samples EB-9 (4.6 µg/L) and EB-10 (40 µg/L) exceeding the ground water Tier 1 ESL of 0.12 µg/L. Remaining samples were not detected above the laboratory reporting limit, however the laboratory reporting limits exceeded the Tier 1 ESL.
- All remaining VOC detections were below their respective residential screening criteria.

4.3 SOIL VAPOR ANALYTICAL DATA

- TPHg was detected in 2 of 4 soil vapor samples at concentrations exceeding the Tier 1 ESL of 50,000 µg/m³ in samples SV-1 (30,000,000 µg/m³) and SV-4 (5,300,000 µg/m³).
- The concentrations of all other VOCs detected were below their respective Tier 1 ESL. Note, however, that sample dilution in soil vapor sample SV-1 raised the benzene reporting limit above ethylbenzene and benzene laboratory reporting limits above their respective Tier 1 ESLs.

4.3.1 Oxygen, Methane and Carbon Dioxide

Laboratory analyses of soil vapor SV-1 through SV-4 revealed: oxygen at concentrations ranging between 1.9 and 15%, methane from 0.16% to 4.7% (the lower explosive limit for methane is 5%), and carbon dioxide from 3.2% to 13%.

4.4 DATA QUALITY ASSESSMENT

Data quality for the soil and ground water samples was assessed by implementing appropriate quality assurance procedures, including analysis of field trip and equipment blank samples and laboratory QA/QC data. The following is a summary of the data quality review:

- All samples were analyzed within the required holding times for the requested analyses; with the exception of PAHs in EB-2 (2-3) and TPHg/VOCs in EB-4 (14.4-15). No PAHs

or VOCs/TPHg were detected in these samples analyzed.

- The field trip and equipment blank samples did not contain VOCs at or above the laboratory reporting limits;
- The results of surrogate analyses were within acceptable ranges;
- The method blanks did not contain VOCs at or above the laboratory reporting limits; and
- The results of the laboratory MS and laboratory MSD samples were within acceptable ranges.
- The shroud sample collected during the sampling of SV-1 detected 2-propanol (isopropyl alcohol or IPA) at a concentration of 220,000 $\mu\text{g}/\text{m}^3$. This compound was not detected in the soil vapor sample collected from SV-1 indicating that the sample train was tight.

Based on the results discussed above, the data are of acceptable quality based on the laboratory-established control limits and the monitoring program objectives.

SECTION 5: CONCLUSIONS AND RECOMMENDATIONS

5.1 SURFACE SOIL QUALITY

Based on results of soil samples collected from this investigation and prior investigations, surface soil quality appears variable. Lead was detected in soil samples from six locations exceeding the residential screening level of 80 milligrams per kilogram (mg/kg), with up to 1,100 mg/kg detected. The lead impact generally appears limited to the upper approximately 1 foot of soil, but at boring EB-4, the sample at 2-3 feet had elevated lead detected. Total petroleum hydrocarbons as diesel (TPHd) were detected in two soil samples exceeding the Tier 1 ESL. PAHs were detected in one soil sample exceeding the residential screening levels. The surface soil impacts, where present, appear restricted to the upper 2 to 3 feet of soil.

5.2 SOIL QUALITY – FORMER ON-SITE SERVICE STATION AREA

During drilling of exploratory borings in the southwest corner of the site, in the former service station area, no significant odors or discoloration were noted on soil samples collected from the upper approximately 10 feet. No petroleum hydrocarbons or VOCs were detected in the soil samples collected from the upper 10 feet exceeding residential ESLs.

Soil samples collected from several of the borings in the southwest corner of the Site from depths of approximately 12 to 14 feet had a significant petroleum odor. Ground water was observed at a depth of approximately 12 feet. Elevated concentrations of TPHd TPHg, and naphthalene were detected in soil samples collected from depths where these petroleum odors were observed. These observations and data indicate that low-level isolated residual impacts may be present in the area of the former USTs.

5.3 SUBSURFACE HYDRAULIC LIFTS

Exploratory boring EB-17 was drilled adjacent to a subsurface hydraulic lift located inside the shop building at 914 West Grand Avenue. No readily apparent staining or odors were noted on the soil samples collected, and no organic vapors were detected in the field using an OVM. Laboratory analyses of soil samples collected from EB-17 up to a depth of approximately 10 feet

did not detect TPHd, TPHo or TPHg. Laboratory analysis of the surface soil sample (0 to 1 foot below the concrete floor) detected the PCBs Arochlor 1254 and Arochlor 1260 at concentrations below residential RSLs.

Laboratory analyses of ground water grab sample GW-2, located approximately 30 feet down-gradient of the hydraulic lifts, did not detect TPHo, TPHg, or VOCs. TPHd was detected at 98 µg/L, which is below the Tier 1 ESL of 100 µg/L.

Based on field observations and laboratory analyses, the hydraulic lifts at 914 West Grand Avenue do not appear to have significantly impacted the Site.

5.4 GROUND WATER QUALITY

A sufficient amount of ground water was not encountered in borings EB-4, EB-5 and GW-4 to collect ground water grab samples. These borings were located in the southeast area of the Site and were intended to evaluate potential impacts to ground water quality from up-gradient sources. No significant odors or discoloration were noted on soil samples collected from the ground water zone from these borings, and no significant concentrations of organic vapors were detected using the OVM in the field. A soil sample collected from the ground water zone from boring EB-4 was analyzed; laboratory analysis did not detect TPH gasoline or VOCs.

A sufficient amount of ground water was encountered in boring EB-6 to collect a ground water grab sample. An apparent petroleum odor was noted in soil samples collected from this boring from depths of approximately 10 to 15 feet. Laboratory analysis of a soil sample collected from boring EB-6 from a depth of approximately 14 to 15 feet did not detect petroleum hydrocarbons or VOCs. Laboratory analyses of ground water grab samples collected from the southwest corner of the site, in the former service station area, detected TPHg exceeding the ESL in sample EB-9 (240 µg/l) and EB-10 (1,300 µg/l). The VOC compound naphthalene exceeded its Tier 1 ESL in the samples collected from EB-9 and EB-10; and benzene and ethylbenzene exceeded their respective Tier 1 ESLs in the sample collected from EB-10.

TPHd (750 µg/l) and TPHo (370 µg/l) were detected in sample GW-1, collected from 2226 Myrtle Street. No TPHg or VOCs were detected in this sample, except 0.7 µg/l xylene.

No chlorinated VOCs (PCE, TCE and cDCE) were detected in the ground water grab samples analyzed during this investigation.

5.5 SOIL VAPOR QUALITY

TPHg was detected in two samples, SV-1 and SV-4, above the ESL of 50,000 µg/m³, which were collected from 914 West Grand Ave. The soil vapor collected from the planned elevator pit, and the sample collected from the western portion of 914 West Grand did not detect TPHg or VOCs above their respective residential screening criteria.

Methane was detected in sample SV-1 close to the lower explosive limit (LEL). The methane may indicate anaerobic biological activity. As noted below, vapor intrusion (VI) engineering controls are recommended for the future on-Site building. The VI controls should take into consideration the methane detected.

5.6 DISCUSSION

Based on field observations and laboratory analyses of soil samples collected from borings drilled in the former on-Site service station area, no significantly impacted soil was identified in the upper approximately 10 feet of soil. These results may indicate that there has not been a significant release from the former on-site tanks. The elevated detections of TPHg in soil vapor samples SV-1 and SV-4 may, however, indicate localized gasoline affected soil. The former tank pit backfill likely will require over-excavation for geotechnical purposes. This over-excavation may encounter pockets of TPH contaminated soil and will require appropriate management.

Compared to analytical results from ground water samples collected in 2005 and 2012, the concentrations of petroleum hydrocarbons and VOCs generally appear to have significantly decreased over time. In addition, the detections of TPH and VOCs at the up-gradient property boundary suggests an off-Site source. It is noted that in 2012, free product was reported in an off-site monitoring well located up-gradient of the site on Myrtle Street that was associated with the Burke Property. Analyses of the free product detected similar constituents to those detected in on-Site ground water and soil samples collected from the shallow ground water zone (see Section 2.2.2).

Ground water grab sample GW-1 was collected from 2226 Myrtle Street to evaluate the area where a UST was depicted on a report for the adjacent City Ventures property. Based on records reviewed by Cornerstone, we did not identify any records indicating the presence of a UST at this location. Laboratory analyses of the ground water grab sample detected TPHd and TPHo in the analysis performed without silica gel cleanup, but no TPHd or TPHo were detected after silica gel cleanup. The TPHd and TPHo detected in GW-1, therefore, may not be associated with petroleum hydrocarbons but rather naturally occurring organic compounds in the ground water.

5.7 RECOMMENDATIONS

Based on this investigation, surface soil appears to have limited impacts of TPHd contamination and lead. In general, the excavation for the floor slab should remove this soil (assuming approximately 2 feet deep excavation), although deeper excavation may be needed in the area of EB-4.

For geotechnical reasons, undocumented backfill in the former on-Site UST excavations likely will require over-excavation and replacement with engineered fill. Isolated areas of potentially impacted soil may be encountered during the over-excavation activities, and should be over-excavated and disposed at a permitted facility. The undocumented backfill removed will additionally require sampling/analyses to evaluate re-use and/or off-Site disposal alternatives.

We recommend preparing a Site Management Plan (SMP) for submittal to ACDEH. The purpose of the SMP will be to establish appropriate management practices for handling impacted soil and ground water that may be encountered during construction activities. Based on results of soil vapor samples, the SMP should also include vapor intrusion engineering controls, such as a sub-slab vapor membrane and passive venting.

The SMP should include the following:

- Site control procedures to control the flow of personnel, vehicles and materials in and out of the Site.
- Measures to minimize dust generation, storm water runoff and tracking of soil off-Site.
- If excavation de-watering is required, protocols to evaluate water quality and discharge/disposal alternatives should be described.
- Protocols for conducting earthwork activities in areas where impacted soil, soil vapor and/or ground water are present or suspected. Worker training requirements, health and safety measures and soil handling procedures should be described.
- Collection/analyses of verification soil samples after removal of surface soil to document the quality of soil remaining on-Site.
- Protocols to be implemented if buried structures, wells, debris, or unidentified areas of impacted soil are encountered during construction activities.
- Protocols to evaluate the quality of soil suspected of being contaminated so that appropriate mitigation, disposal or reuse alternatives, if necessary, can be determined.
- Procedures to evaluate and document the quality of any soil imported to the Site. Soil containing chemicals exceeding residential (unrestricted use) screening levels or typical background concentrations of metals should not be accepted.
- Methods to monitor excavations for the potential presence of volatile chemical vapors.

SECTION 6: LIMITATIONS

Cornerstone performed this investigation to support TCD/CEF in evaluation of soil, soil vapor, and ground water quality beneath the Site. TCD/CEF understands that the extent of soil, soil vapor, and ground water data obtained is based on the reasonable limits of time and budgetary constraints. In addition, the chemical information presented in this report can change over time and is only valid at the time of this investigation and for the locations sampled.

This report, an instrument of professional service, was prepared for the sole use TCD/CEF and may not be reproduced or distributed without written authorization from Cornerstone.

Cornerstone makes no warranty, expressed or implied, except that our services have been performed in accordance with the environmental principles generally accepted at this time and location.

SECTION 7: REFERENCES

Cornerstone Earth Group. August 19, 2016. *Phase I Environmental Site Assessment, 914 West Grand Avenue, 2220, 2226, and 2236 Myrtle Street, and 2277 and 2281 Market Street, Oakland, California.*

Cornerstone Earth Group. October 4, 2016. Conceptual Site Model and Data Gap Investigation Work Plan, 914 W. Grand Avenue, Oakland, California.

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EPA, 2012. *Regional Screening Level (RSL) Summary Table, Updated May 2016*.
<http://www.epa.gov/region9/superfund/prg/>

Regional Water Quality Control Board, 2008. *Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater* (November 2007), San Francisco Bay Regional Water Quality Control Board, California EPA,
<http://www.waterboards.ca.gov/sanfranciscobay/esl.htm>, updated February, 2016.

Table 1. Analytical Results of Selected Soil Samples - Metals
(Concentrations in mg/kg)

Sample ID	Date	Depth (feet)	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Vanadium	Zinc
EB-1 (0-1)	11/9/2016	0-1	6.64	127	<0.5	19.8	8.28	17	92.4	0.32	<1	18.8	24	87.8
EB-1 (2-3)	11/9/2016	2-3	1.53	68.8	<0.5	41.3	5.77	13.3	4.84	<0.14	<1	27.3	21.5	24.9
EB-2 (0-1)	11/9/2016	0-1	3.99	99.6	0.62	19.7	15.9	36.8	3.91	0.6	<1	25.3	62.2	57.6
EB-2 (2-3)	11/9/2016	2-3	3.21	95.8	<0.5	37.4	5.83	11.6	3.47	<0.14	<1	20.5	27	25.6
EB-3 (0-1)	11/9/2016	0-1	4.75	118	0.9	7.06	8.98	31.6	139	<0.14	<1	6.82	20.9	160
EB-3 (2-3)	11/9/2016	2-3	3.09	121	<0.5	26.5	5.23	27	77.5	0.44	<1	17.3	21.1	131
EB-4 (0-1)	11/9/2016	0-1	4.43	109	1.25	28.6	6.73	37.2	529	<0.14	1.5	57	37.5	144
EB-4 (2-3)	11/9/2016	2-3	3.7	147	<0.5	31.4	4.82	16.3	345	0.31	<1	18.6	24	104
EB-4 (4.5-5)	11/9/2016	4½-5	---	---	---	---	---	---	<9.7	---	---	---	---	---
EB-5 (0-1)	11/9/2016	0-1	3.97	92.8	<0.5	32	6.89	10.4	5.06	<0.14	<1	19.3	25.3	19.9
EB-5 (2-3)	11/9/2016	2-3	2.63	100	<0.5	36.9	3.96	10.8	4.13	<0.14	<1	19.8	27.7	19.5
EB-7 (0-1)	11/9/2016	0-1	9.3	218	0.76	41.8	7.64	365	404	0.14	<1	41.2	33.6	167
EB-7 (2-3)	11/9/2016	2-3	---	---	---	---	---	---	<9.5	---	---	---	---	---
EB-7 (4-5)	11/9/2016	4-5	---	---	---	---	---	---	<10	---	---	---	---	---
EB-9 (4.5-5)	11/9/2016	4½-5	<9.4	1,200	<2.8	42	<47	<47	<9.4	<0.45	<47	42	47	<47
EB-9 (13-13.5)	11/9/2016	13-13½	7.97	208	0.81	39.6	21	19.3	10.8	<0.14	<1	97.9	42.8	43.2
EB-10 (0-1)	11/10/2016	0-1	2.96	125	<0.5	45.9	6.25	12.9	11.5	0.14	<1	24.4	31.2	28.2
EB-11 (0-1)	11/10/2016	0-1	6.72	318	0.5	19.8	5.84	26.6	222	0.81	<1	21.3	26.4	93.5
EB-11 (2-3)	11/10/2016	2-3	2.04	118	<0.5	43.8	10	13.6	5.69	<0.14	<1	31.5	25.5	23.3
EB-11 (4.5-5)	11/10/2016	4½-5	<10	230	<3	41	<50	<50	<10	<0.4	<50	42	27	<50
EB-11 (9.5-10)	11/10/2016	9½-10	13	92	<3	24	<50	<50	<10	<0.4	<50	32	45	<50
EB-14 (6-7)	11/9/2016	6-7	3.47	144	<0.5	38.9	10.4	14.2	31.1	<0.14	<1	40.3	30.4	38.2
EB-16 (0-1)	11/10/2016	0-1	3.35	58.7	<0.5	42.4	7.5	14.9	13.3	<0.14	<1	42.1	24.8	39.5
EB-16 (12-12.5)	11/10/2016	12-12½	6.7	153	0.54	53.7	13.9	18.1	7.59	<0.14	<1	69.3	39.9	37.3
EB-17 (0-1)	11/9/2016	0-1	6.65	373	0.95	44.2	7.64	278	1,100	1.08	<1	25.1	35.4	421
EB-17 (2-3)	11/9/2016	2-3	---	---	---	---	---	---	<10	---	---	---	---	---
EB-17 (4-5)	11/9/2016	4-5	---	---	---	---	---	---	<9.2	---	---	---	---	---
ESL ¹ - Tier 1			0.067	2,900	39	NE	23	3,100	80	13	390	83	600	23,000
Scott, 1991 ²	Background Range		0.2 to 5.5	---	0.05 to 1.7	30.5 to 72	---	23.8 to 47.5	6.8 to 16.1	---	---	46.4 to 101	---	47.7 to 82.8
	Maximum Background Detection		20	---	14	170	---	67	54	1.3	---	145	---	120
Bradford, 1996 ³	Background Range		0.6 to 11	133 to 1,400	0.05 to 1.7	23 to 1,579	2.7 to 46.9	9.1 to 96.4	12.4 to 97.1	0.05 to 0.90	0.1 to 9.6	9 to 509	39 to 288	88 to 236
	Upper Quartile		4.7	625	0.44	115	18.3	36.6	26.7	0.34	1.4	56	134	170
LBNL, 2009 ⁴	99 th Percentile		28	410	5.6	120	25	63	43	0.42	4.8	272	90	140
Duverge, 2011 ⁵	Mean		4.6	---	---	---	---	---	---	---	---	---	---	---
	99 th Percentile		11	---	---	---	---	---	---	---	---	---	---	---
TTLC ⁶			500	10000	100	2500	8000	2500	1000	20	3500	2000	2400	5000
STLC ⁷ (mg/L)			5	100	1	5	80	25	5	0.2	350	20	24	250

- 1 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - February 2016.
 - 2 Scott, Christina. December 1991. Background Metal Concentrations in Soils in Northern Santa Clara County.
 - 3 Bradford, et. al. March 1996. Background Concentrations of Trace and Major Elements in California Soils.
 - 4 LBNL, 2009. Analysis of Background Distributions of Metals in the Soil at Lawrence Berkeley National Laboratory.
 - 5 Duverge, 2011. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region.
 - 6 Total Threshold Limit Concentration - California Code of Regulations, Title 22.
 - 7 Soluble Threshold Limit Concentration - California Code of Regulations, Title 22.
- < Not detected at or above laboratory reporting limit
NE Not Established
--- Not Analyzed
BOLD Concentration exceeds selected environmental screening criteria
Note: **Red font** indicates the laboratory reporting limit exceeds one or more of the selected screening levels.

Table 2. Analytical Results of Selected Soil Samples - Petroleum Hydrocarbons and Volatile Organic Compounds
(Concentrations in mg/kg)

Sample ID	Date	Depth (feet)	TPHd without Silica Gel Cleanup	TPHd with Silica Gel Cleanup	TPHo without Silica Gel Cleanup	TPHo with Silica Gel Cleanup	TPHg	Ethylbenzene	2-Butanone (MEK)	2-Hexanone	Acetone	Iso-propylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene
EB-1 (0-1)	11/9/2016	0-1	1.7	---	5.9	---	---	---	---	---	---	---	---	---	---	---
EB-1 (2-3)	11/9/2016	2-3	1.5	---	<5	---	---	---	---	---	---	---	---	---	---	---
EB-2 (0-1)	11/9/2016	0-1	45	---	430	---	---	---	---	---	---	---	---	---	---	---
EB-2 (2-3)	11/9/2016	2-3	2.4	---	5.8	---	---	---	---	---	---	---	---	---	---	---
EB-3 (0-1)	11/9/2016	0-1	50	---	650	---	---	---	---	---	---	---	---	---	---	---
EB-3 (2-3)	11/9/2016	2-3	1.6	---	10	---	---	---	---	---	---	---	---	---	---	---
EB-4 (0-1)	11/9/2016	0-1	3.9	---	19	---	---	---	---	---	---	---	---	---	---	---
EB-4 (2-3)	11/9/2016	2-3	1.0	---	<5	---	---	---	---	---	---	---	---	---	---	---
EB-4 (14.5-15)	11/9/2016	14½-15	1.0	<5.0	---	---	<0.98	<0.0046	<0.0092	<0.0092	<0.018	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
EB-5 (0-1)	11/9/2016	0-1	4.8	---	8.1	---	---	---	---	---	---	---	---	---	---	---
EB-5 (2-3)	11/9/2016	2-3	1.7	---	<5	---	---	---	---	---	---	---	---	---	---	---
EB-6 (2-3)	11/9/2016	2-3	1.3	---	5	---	<0.96	<0.0053	<0.011	<0.011	<0.021	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
EB-6 (4-5)	11/9/2016	4-5	37	---	120	---	<1.1	<0.005	<0.0099	<0.0099	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005
EB-6 (9-10)	11/9/2016	9-10	57	---	110	---	7.2	<0.0041	<0.0083	0.0087	<0.015	<0.0041	<0.0041	<0.0041	<0.0041	0.0067
EB-6 (14-15)	11/9/2016	14-15	<1	---	<5	---	<1.1	<0.0042	<0.0084	<0.0084	<0.017	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
EB-7 (0-1)	11/9/2016	0-1	180	---	1,200	---	---	---	---	---	---	---	---	---	---	---
EB-7 (2-3)	11/9/2016	2-3	<1	---	<5	---	<0.98	<0.0047	<0.0095	<0.0095	0.032	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
EB-7 (4-5)	11/9/2016	4-5	<1	---	<5	---	<0.93	<0.0044	<0.0089	<0.0089	<0.018	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
EB-7 (9-10)	11/9/2016	9-10	<1	---	<5	---	<0.95	<0.0045	<0.0089	<0.0089	<0.018	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045
EB-8 (2-3)	11/9/2016	2-3	1.3	---	18	---	<0.98	<0.0048	<0.0096	<0.0096	0.023	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
EB-8 (4-5)	11/9/2016	4-5	<0.99	---	<5	---	<1.1	<0.0047	<0.0095	<0.0095	<0.019	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
EB-8 (9-10)	11/9/2016	9-10	<1	---	<5	---	<0.93	<0.0048	<0.0095	<0.0095	<0.019	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
EB-9 (2-3)	11/9/2016	2-3	1.4	---	6.1	---	<0.98	<0.0044	<0.0089	<0.0089	<0.018	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
EB-9 (4.5-5)	11/9/2016	4½-5	<1	---	5.6	---	<1.1	<0.0045	<0.0091	<0.0091	<0.018	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045
EB-9 (9.5-10)	11/9/2016	9½-10	<1	---	<5	---	<0.96	<0.004	<0.008	<0.008	<0.016	<0.004	<0.004	<0.004	<0.004	<0.004
EB-9 (13-13.5)	11/9/2016	13-13½	290	270	<5	6.0	10	<5	<10	<10	<20	8.9	13	28	50	7
EB-10 (0-1)	11/10/2016	0-1	8.4	---	130	---	---	---	---	---	---	---	---	---	---	---
EB-10 (2-3)	11/10/2016	2-3	2.2	---	<5	---	<1.1	<0.0044	<0.0088	<0.0088	<0.018	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
EB-10 (4.5-5)	11/10/2016	4½-5	<1	---	<5	---	<1.1	<0.0056	<0.011	<0.011	<0.022	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
EB-10 (9.5-10)	11/10/2016	9½-10	1.6	---	<5	---	<1.1	<0.0055	<0.011	<0.011	<0.022	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
EB-11 (0-1)	11/10/2016	0-1	<1	---	<5	---	---	---	---	---	---	---	---	---	---	---
EB-11 (2-3)	11/10/2016	2-3	<1	---	<5	---	---	---	---	---	---	---	---	---	---	---
EB-11 (4.5-5)	11/10/2016	4½-5	1.5	---	<5	---	---	---	---	---	---	---	---	---	---	---
EB-11 (9.5-10)	11/10/2016	9½-10	1.2	---	<5	---	---	---	---	---	---	---	---	---	---	---
EB-11 (14.5-15)	11/10/2016	14½-15	<1	---	<5	---	<0.98	<0.005	<0.01	<0.01	0.17	<0.005	<0.005	<0.005	<0.005	<0.005
EB-12 (2-3)	11/10/2016	2-3	1.2	---	<5	---	<1.1	<0.0049	0.013	<0.0098	0.073	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
EB-12 (4.5-5)	11/10/2016	4½-5	<1	---	<5	---	<0.95	<0.0046	<0.0091	<0.0091	0.023	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
EB-12 (9.5-10)	11/10/2016	9½-10	<1	---	<5	---	<0.93	<0.005	<0.01	<0.01	0.022	<0.005	<0.005	<0.005	<0.005	<0.005
EB-13 (2-3)	11/9/2016	2-3	2.7	---	19	---	<0.95	<0.005	<0.0099	<0.0099	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005
EB-13 (4-5)	11/9/2016	4-5	<1	---	<5	---	<1.1	<0.0046	<0.0091	<0.0091	<0.018	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
EB-13 (9-10)	11/9/2016	9-10	<1	---	<5	---	<1.1	<0.0052	<0.01	<0.01	<0.021	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
EB-13 (11-12)	11/9/2016	11-12	18	---	<5	---	28	0.028	<0.0076	<0.0076	0.033	0.13	0.47	1.1	0.99	0.12
EB-13 (14-15)	11/9/2016	14-15	<1	---	<5	---	<1.1	<0.0041	<0.0081	<0.0081	0.034	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041
EB-14 (2-3)	11/9/2016	2-3	<5	---	84	---	<1	<0.0052	<0.01	<0.01	<0.02	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
EB-14 (4-5)	11/9/2016	4-5	1	---	5	---	<1.1	<0.0047	<0.0095	<0.0095	<0.017	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
EB-14 (6-7)	11/9/2016	6-7	13	---	41	---	<0.93	<0.0043	<0.0086	<0.0086	<0.016	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043
EB-14 (9-10)	11/9/2016	9-10	<1	---	<5	---	<1.1	<0.0041	<0.0082	<0.0082	<0.016	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041
EB-14 (12-13)	11/9/2016	12-13	90	---	<5	---	7.2	<5	<10	<10	<20	8.8	30	22	42	5.7
EB-14 (14-15)	11/9/2016	14-15	2.6	---	<5	---	<1	<0.0043	<0.0087	<0.0087	0.048	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043
EB-15 (2-3)	11/10/2016	2-3	<1	---	<5	---	<0.98	<0.0041	<0.0082	<0.0082	<0.016	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041
EB-15 (4.5-5)	11/10/2016	4½-5	<1	---	<5	---	<1	<0.0043	<0.0087	<0.0087	<0.017	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043
EB-15 (9.5-10)	11/10/2016	9½-10	<0.99	---	<5	---	<1.1	<0.0046	<0.0092	<0.0092	<0.018	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
EB-16 (0-1)	11/10/2016	0-1	51	---	540	---	---	---	---	---	---	---	---	---	---	---
EB-16 (2-3)	11/10/2016	2-3	2	---	5.5	---	<1	<0.0049	<0.0098	<0.0098	0.043	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
EB-16 (4.5-5)	11/10/2016	4½-5	<1	---	<5	---	<1	<0.0049	<0.0097	<0.0097	0.038	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
EB-16 (12-12.5)	11/10/2016	12-12½	240	190	<5	<5.0	670	<0.25	<0.5	<0.5	<1	0.26	<0.25	1.9	1.5	0.52
EB-16 (14.5-15)	11/10/2016	14½-15	<1	---	<5	---	<0.95	<0.0046	<0.0092	<0.0092	0.18	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
EB-17 (0-1)	11/9/2016	0-1	10	---	45	---	<0.92	<0.0061	<0.012	<0.012	<0.018	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061
EB-17 (2-3)	11/9/2016	2-3	<0.99	---	<5	---	<1	<0.0057	<0.011	<0.011	<0.021	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
EB-17 (4-5)	11/9/2016	4-5	<1	---	<5	---	<1	<0.0043	<0.0087	<0.0087	<0.02	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043
EB-17 (9-10)	11/9/2016	9-10	<1	---	<5	---	<1.1	<0.0044	<0.0089	<0.0089	<0.018	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
GW-3 (13-13.5)	11/9/2016	13-13½	110	---	<5	---	490	<2.5	<5	<5	<10	3.8	7.2	11	20	2.7
ESL ¹ - Tier 1			230	230	5,100	5,100	100	1.4	5.1	20 ²	0.5	190 ²	0.023	390 ²	380 ²	780 ²

1 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - February 2016.
2 Regional Screening Level (RSL) HQ=0.1, USEPA Region 9 - November 2015.
< Not detected at or above laboratory reporting limit
NE Not Established
--- Not Analyzed
BOLD Concentration exceeds selected environmental screening criteria
Note: **Red font** indicates the laboratory reporting limit exceeds one or more of the selected screening levels.

Table 3. Analytical Results of Selected Soil Samples - Pesticides and PCBs
(Concentrations in mg/kg)

Sample ID	Date	Depth (feet)	4,4'-DDE	Aldrin	beta-BHC	Endosulfan I	gamma-Chlordane	Aroclor 1254	Aroclor 1260
EB-1 (0-1)	11/9/2016	0-1	<0.00022	<0.00021	<0.0002	<0.00016	<0.00018	---	---
EB-2 (0-1)	11/9/2016	0-1	<0.011	<0.01	<0.01	<0.008	<0.009	---	---
EB-3 (0-1)	11/9/2016	0-1	<0.0044	<0.0042	<0.004	<0.0032	<0.0036	---	---
EB-4 (0-1)	11/9/2016	0-1	<0.00044	<0.00042	<0.0004	<0.00032	<0.00036	---	---
EB-5 (0-1)	11/9/2016	0-1	<0.00022	<0.00021	<0.0002	<0.00016	0.00025 J	---	---
EB-7 (0-1)	11/9/2016	0-1	<0.011	<0.01	<0.0099	<0.0079	<0.0089	0.15	0.017
EB-9 (4.5-5)	11/9/2016	4½-5	<0.001	<0.00018	0.00042 J	<0.00057	<0.00015	<0.0048	<0.0048
EB-9 (13-13.5)	11/9/2016	13-13½	<0.00022	<0.00021	<0.0002	<0.00016	<0.00018	<0.0048	<0.0048
EB-10 (0-1)	11/10/2016	0-1	<0.0018	<0.0012	<0.0011	<0.0011	<0.0013	---	---
EB-11 (0-1)	11/10/2016	0-1	0.0011 J	<0.00025	<0.00022	<0.00022	<0.00027	---	---
EB-11 (2-3)	11/10/2016	3-Feb	<0.00036	<0.00025	<0.00022	<0.00022	<0.00026	---	---
EB-11 (4.5-5)	11/10/2016	4½-5	<0.0005	0.00018 J	0.00044 J	<0.00028	<0.000074	---	---
EB-11 (9.5-10)	11/10/2016	9½-10	<0.00029	<0.0001	<0.00021	<0.000088	<0.00012	---	---
EB-14 (6-7)	11/9/2016	6-7	<0.00022	<0.00021	<0.0002	<0.00016	<0.00018	0.012	<0.0048
EB-16 (12-12.5)	11/10/2016	12-12½	<0.00037	<0.00025	<0.00022	0.0011	<0.00027	<0.0048	<0.0048
EB-17 (0-1)	11/9/2016	0-1	<0.00022	<0.00021	<0.0002	<0.00016	<0.00018	0.027	0.016
ESL ¹ - Tier 1			1.9	0.036	NE	NE	NE	0.12 ²	0.24 ²

- 1 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - February 2016.
- 2 Regional Screening Level (RSL) HQ=0.1, USEPA Region 9 - November 2015.
- < Not detected at or above laboratory reporting limit
- NE Not Established
- Not Analyzed
- J Estimated concentration between Method Detection Limit (MDL) and Reporting Limit (RL)

Table 4. Analytical Results of Selected Soil Samples - Polyaromatic Hydrocarbons (PAHs)
(Concentrations in mg/kg)

Sample ID	Date	Depth (feet)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(g,h,i)perylene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
EB-1 (0-1)	11/9/2016	0-1	<0.00099	<0.00099	<0.00099	<0.00099	<0.0012	<0.00099	<0.00099	<0.00099	<0.00099	<0.001	<0.00099	<0.00099	<0.001	<0.00099	<0.00099	<0.00099
EB-2 (0-1)	11/9/2016	0-1	<0.02	<0.02	<0.02	<0.02	<0.025	<0.02	<0.02	<0.02	0.037 J	<0.02	<0.02	<0.02	<0.02	<0.02	0.054 J	<0.02
EB-3 (0-1)	11/9/2016	0-1	<0.003	0.023	0.027	0.16	0.13	0.24	0.25	0.069	0.18	0.022	0.45	0.0048 J	0.12	0.018	0.2	0.53
EB-3 (2-3)	11/6/2016	2-3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
EB-4 (0-1)	11/9/2016	0-1	<0.001	0.001 J	0.0012 J	0.0059	0.0032 J	0.0068	0.0086	0.0022 J	0.0061	0.0011 J	0.008	<0.001	0.003 J	<0.001	0.0039 J	0.0089
EB-5 (0-1)	11/9/2016	0-1	<0.001	<0.001	<0.001	<0.001	<0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
EB-7 (0-1)	11/9/2016	0-1	<0.005	<0.005	<0.005	<0.005	0.015 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0055 J
EB-9 (4.5-5)	11/9/2016	4½-5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
EB-9 (13-13.5)	11/9/2016	13-13½	<0.00099	<0.00099	<0.00099	<0.00099	<0.0012	<0.00099	<0.00099	<0.00099	<0.00099	<0.001	<0.00099	0.0018 J	<0.001	0.016	0.0067	0.0015 J
EB-10 (0-1)	11/10/2016	0-1	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034
EB-11 (0-1)	11/10/2016	0-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
EB-11 (2-3)	11/10/2016	2-3	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099
EB-11 (4.5-5)	11/10/2016	4½-5	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099
EB-11 (9.5-10)	11/10/2016	9½-10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
EB-14 (6-7)	11/9/2016	6-7	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
EB-16 (0-1)	11/10/2016	0-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011 J	<0.001	<0.001
EB-16 (12-12.5)	11/10/2016	12-12½	0.03	0.021	0.013	0.0063	0.0031 J	0.0027 J	0.0024 J	<0.001	0.0069	<0.001	0.018	0.037	<0.001	0.0012	0.071	0.025
EB-17 (0-1)	11/9/2016	0-1	<0.00098	<0.00098	<0.00098	<0.00098	<0.0012	<0.00098	0.0012 J	<0.00098	<0.00098	<0.00098	<0.00098	<0.00098	<0.001	<0.00098	<0.00098	0.001 J
ESL ¹ - Tier 1			16	13	2.8	0.16	2.5	0.016	0.16	1.6	3.8	0.016	60	8.9	0.16	0.023	11	85

- 1 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - February
 < Not detected at or above laboratory reporting limit
 --- Not Analyzed
BOLD Concentration exceeds selected environmental screening criteria
 J Estimated concentration between Method Detection Limit (MDL) and Reporting Limit
 Note: **Red font** indicates the laboratory reporting limit exceeds one or more of the selected

Table 5. Analytical Results of Selected Ground Water Samples
(Concentrations in µg/L)

Sample ID	Date	TPHd without Silica Gel Cleanup	TPHd with Silica Gel Cleanup	TPHo without Silica Gel Cleanup	TPHo with Silica Gel Cleanup	TPHg	Benzene	Toluene	Ethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Acetone	Isopropylbenzene	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-xylene	sec-Butylbenzene
EB-7	11/10/2016	---	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	11	<0.5	<2	<0.5	<0.5	<0.5	<0.5
EB-8	11/10/2016	180	<50	<300	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<2	<0.5	<0.5	<0.5	<0.5
EB-9	11/10/2016	1,000	490	<300	<300	240	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	15	6.6	4.6	<0.5	21	<0.5	1.2
EB-10	11/10/2016	1,800	850	<300	<300	1,300	1.4	0.5	60	28	6.9	1.2	<10	34	40	20	98	<0.5	12
GW-1	11/10/2016	750	<50	370	<300	<50	<0.5	<0.5	<0.5	1	<0.5	<0.5	<10	<0.5	<2	<0.5	<0.5	0.7	<0.5
GW-2	11/10/2016	98	<50	<300	<300	<50	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<33	<1.7	<6.7	<1.7	<1.7	<1.7	<1.7
GW-3	11/10/2016	790	<50	<300	<300	61	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<10	<0.5	<2	<0.5	1.5	<0.5	<0.5
ESL ¹ - GW Tier 1		100	100	100	100	100	1.0	40	13	NE	NE	NE	1,500	NE	0.12	NE	NE	20	NE

1 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - February 2016.

2 Regional Screening Level (RSL), USEPA Region 9 - November 2015.

< Not detected at or above laboratory reporting limit

NE Not Established

--- Not Analyzed

BOLD Concentration exceeds selected environmental screening criteria

J Estimated concentration between Method Detection Limit (MDL) and Reporting Limit (RL)

Note: **Red font** indicates the laboratory reporting limit exceeds one or more of the selected screening levels.

Table 6. Analytical Results of Selected Soil Vapor Samples
(Concentrations in $\mu\text{g}/\text{m}^3$)

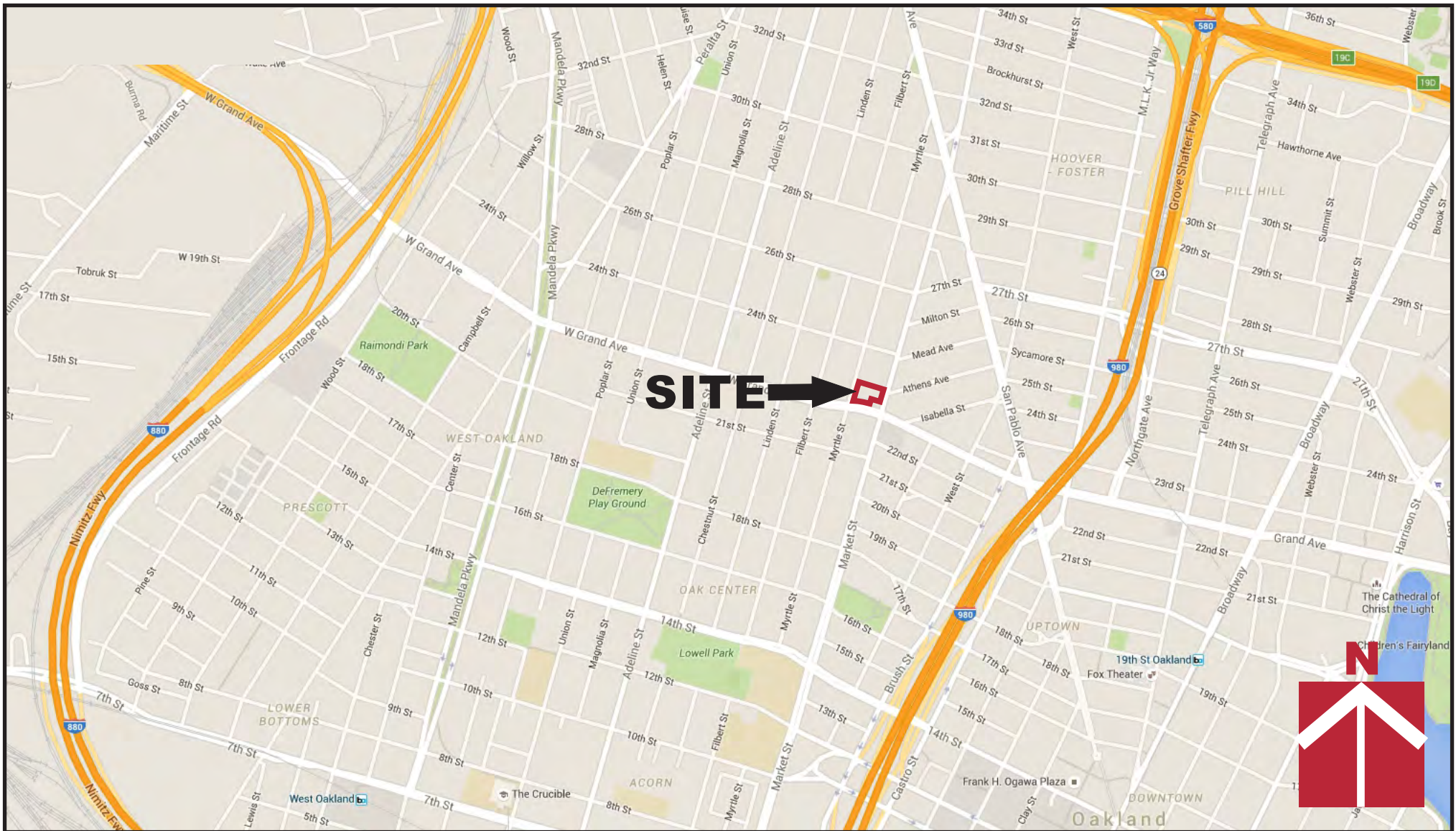
Sample ID	Date	Depth (feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	1,3-Butadiene	2,2,4-Trimethylpentane	4-Methyl-2-Pentanone (MIBK)	Acetone	Cyclohexane	Heptane	Hexane	PCE	Ethanol	Carbon Dioxide (%)	Methane (%)	Oxygen (%)
SV-1	11/10/2016	7	30,000,000	<490	<690	<980	<1300	<1300	6,600,000	<1300	<2000	<820	<1100	14,000	<1200	<2800	13	4.7	1.9
SV-2	11/10/2016	10	5,700	23	20	<0.76	<0.98	38	<0.42	<0.98	38	9	7.1	14	38	<2.1	9.7	0.00024	7
SV-3	11/10/2016	7	610	<0.38	<0.53	<0.76	<0.98	<1.0	23	<0.98	<1.6	<0.63	<0.85	<0.94	<0.94	<2.1	11	0.16	2.5
SV-4	11/10/2016	7	5,300,00	<190	2,600	<380	<0.98	<510	810,000	5,100	<780	<320	10,000	11,000	<470	5,400	3.2	0.36	15
ESL ¹ - Tier 1			50,000	48	160,000	560	52,000	NE	NE	210,000	15,000,000	NE	NE	NE	240	NE	NE	NE	NE

1 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - February 2016.

< Not detected at or above laboratory reporting limit

NE Not Established

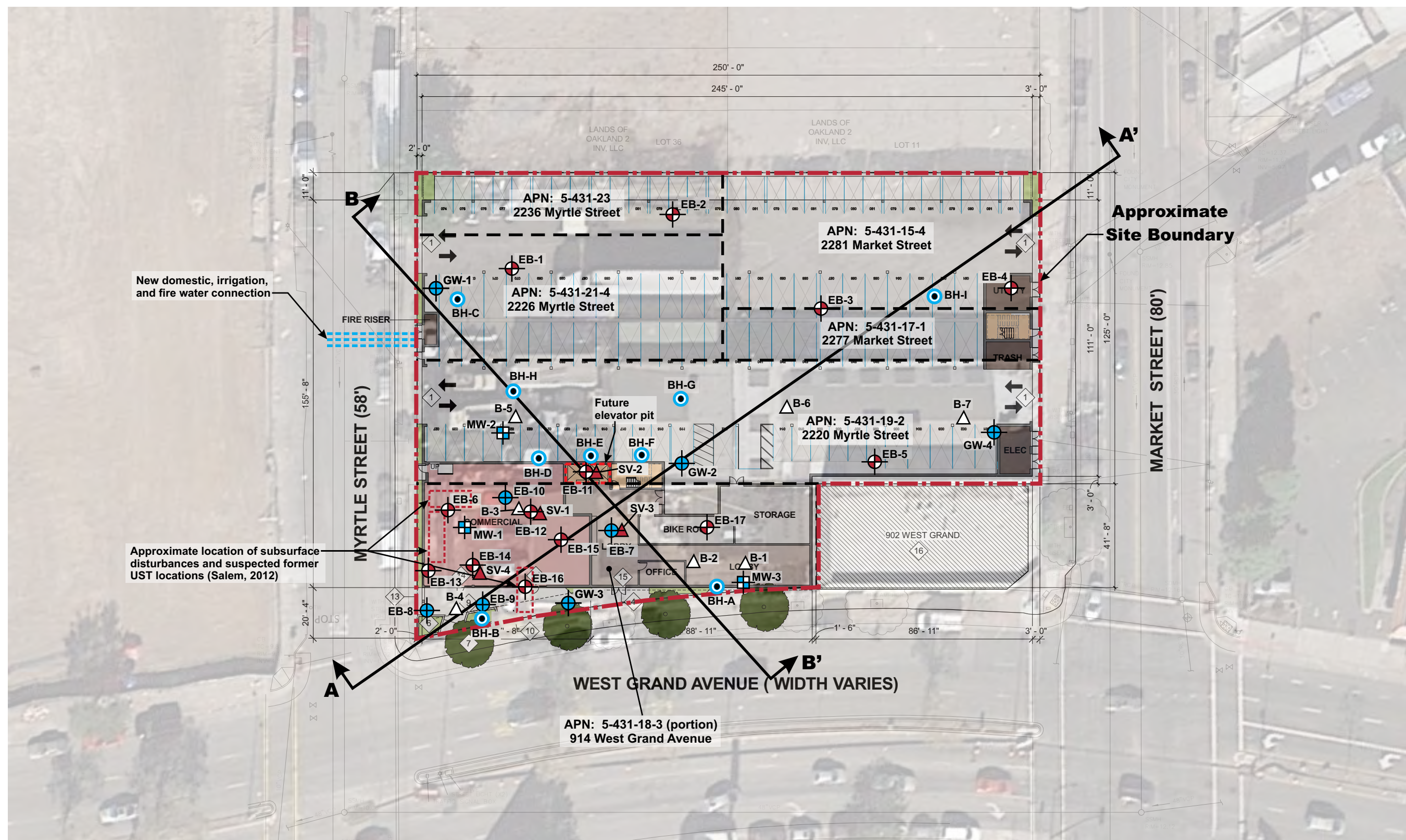
Note: **Red font** indicates the laboratory reporting limit exceeds one or more of the selected screening levels.



Vicinity Map

**914 West Grand Avenue
Residential Development
Oakland, CA**

Project Number	914-1-3
Figure Number	Figure 1
Date	October 2016
Drawn By	RRN



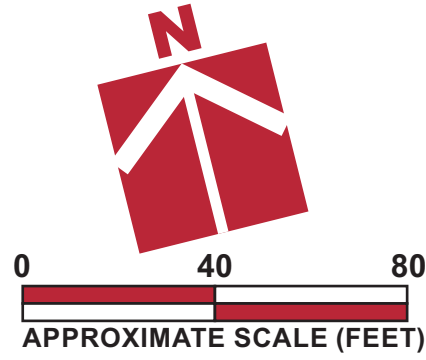
New domestic, irrigation, and fire water connection

Approximate location of subsurface disturbances and suspected former UST locations (Salem, 2012)

Approximate Site Boundary

Legend

- Approximate location of ground water grab sample (sampled November 10, 2016)
- Approximate location of ground water monitoring well (Salem, June 2012) (sampled August 24, 2016)
- Approximate location of soil boring and ground water grab sample (ASE, April 2005)
- Approximate location of soil boring and soil vapor probe (Salem, February 2012)
- Approximate location of exploratory boring for soil sample collection
- Approximate location of temporary soil vapor probe
- Approximate location of cross section

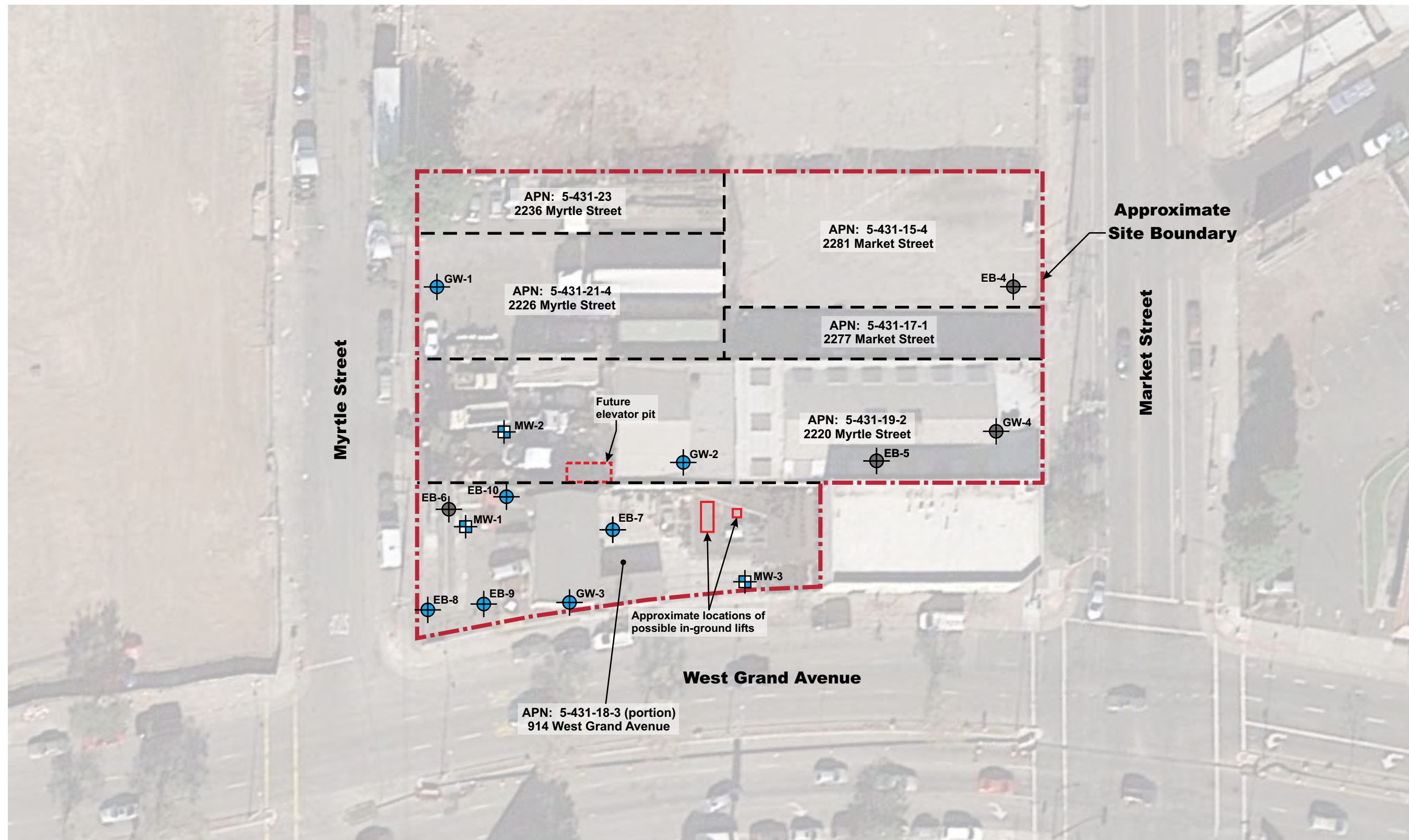


Base by Google Earth, dated 10/30/2015
 Overlay by Lowney Architecture, Site Plan - A1.1, dated 8/29/2016

Project Number	914-1-3
Figure Number	Figure 2
Date	December 2016
Drawn By	RRN

Site Plan
914 West Grand Avenue
Residential Development
Oakland, CA





Project Number
914-1-3

Figure Number
Figure 3

Date
November 2016




Drawn By
RRN

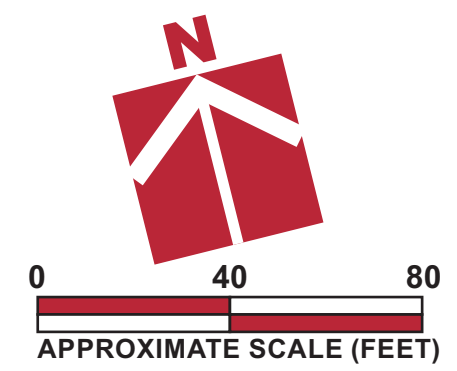
Ground Water Sampling Locations

914 West Grand Avenue
Residential Development
Oakland, CA



Legend

-  Approximate location of ground water grab sample (sampled November 10, 2016)
-  Approximate location of attempted ground water grab sample - insufficient ground water for sample collection
-  Approximate location of ground water monitoring well (Salem, June 2012) (sampled August 24, 2016)



Screening Levels

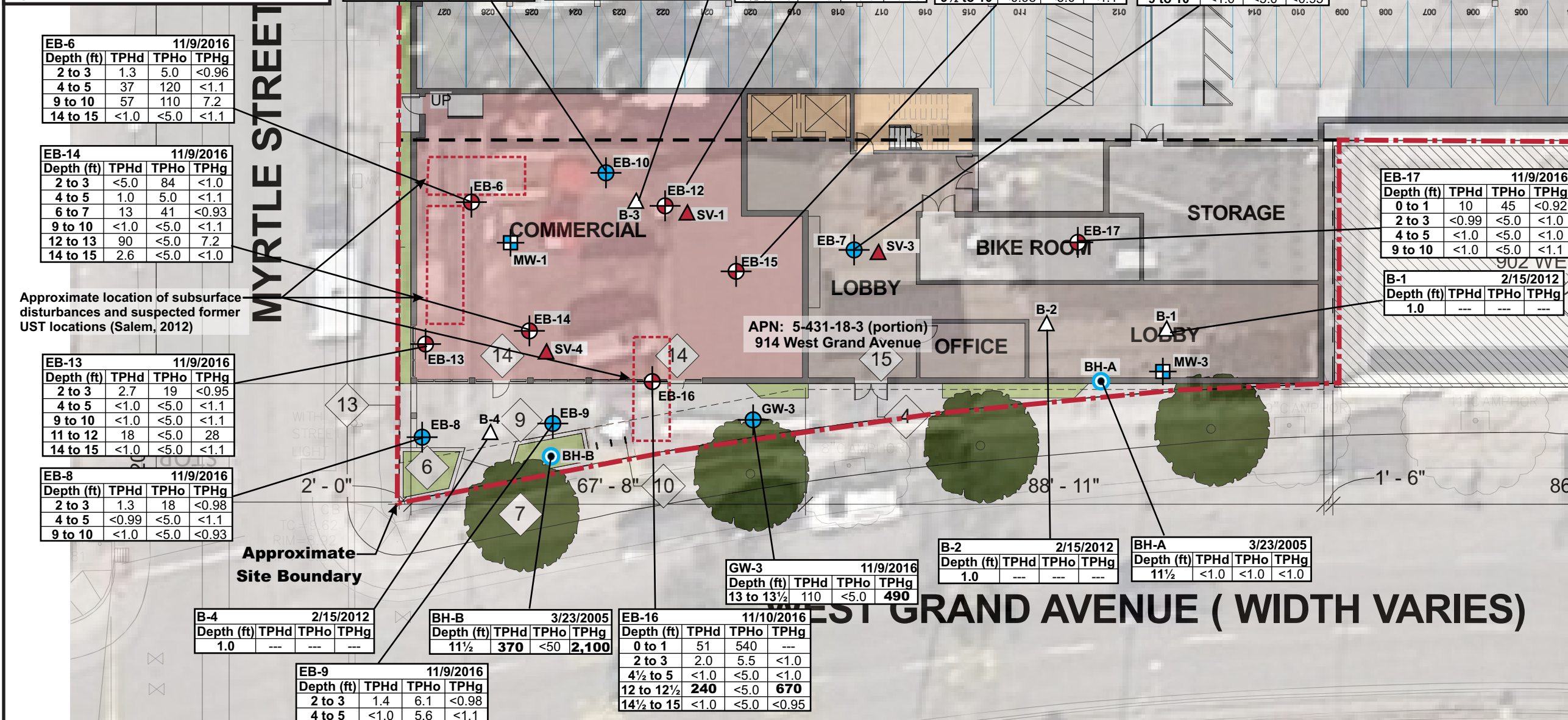
ESL¹ - Tier 1

TPHd (diesel) **230**
 TPHo (oil) **5,100**
 TPHg (gasoline) **100**

Concentrations measured in mg/kg

- ¹ Environmental Screening Level (ESL), RWQCB, SF Bay Region - February 2016
- < Not detected at or above laboratory reporting limit
- Not Analyzed

BOLD Concentration exceeds ESL



EB-6 11/9/2016				
Depth (ft)	TPHd	TPHo	TPHg	
2 to 3	1.3	5.0	<0.96	
4 to 5	37	120	<1.1	
9 to 10	57	110	7.2	
14 to 15	<1.0	<5.0	<1.1	

EB-14 11/9/2016				
Depth (ft)	TPHd	TPHo	TPHg	
2 to 3	<5.0	84	<1.0	
4 to 5	1.0	5.0	<1.1	
6 to 7	13	41	<0.93	
9 to 10	<1.0	<5.0	<1.1	
12 to 13	90	<5.0	7.2	
14 to 15	2.6	<5.0	<1.0	

EB-13 11/9/2016				
Depth (ft)	TPHd	TPHo	TPHg	
2 to 3	2.7	19	<0.95	
4 to 5	<1.0	<5.0	<1.1	
9 to 10	<1.0	<5.0	<1.1	
11 to 12	18	<5.0	28	
14 to 15	<1.0	<5.0	<1.1	

EB-8 11/9/2016				
Depth (ft)	TPHd	TPHo	TPHg	
2 to 3	1.3	18	<0.98	
4 to 5	<0.99	<5.0	<1.1	
9 to 10	<1.0	<5.0	<0.93	

B-4 2/15/2012				
Depth (ft)	TPHd	TPHo	TPHg	
1.0	---	---	---	

BH-B 3/23/2005				
Depth (ft)	TPHd	TPHo	TPHg	
11½	370	<50	2,100	

EB-9 11/9/2016				
Depth (ft)	TPHd	TPHo	TPHg	
2 to 3	1.4	6.1	<0.98	
4 to 5	<1.0	5.6	<1.1	
9 to 10	<1.0	<5.0	<0.96	
13 to 13½	290	<5.0	10	

EB-16 11/10/2016				
Depth (ft)	TPHd	TPHo	TPHg	
0 to 1	51	540	---	
2 to 3	2.0	5.5	<1.0	
4½ to 5	<1.0	<5.0	<1.0	
12 to 12½	240	<5.0	670	
14½ to 15	<1.0	<5.0	<0.95	

GW-3 11/9/2016				
Depth (ft)	TPHd	TPHo	TPHg	
13 to 13½	110	<5.0	490	

B-2 2/15/2012				
Depth (ft)	TPHd	TPHo	TPHg	
1.0	---	---	---	

BH-A 3/23/2005				
Depth (ft)	TPHd	TPHo	TPHg	
11½	<1.0	<1.0	<1.0	

EB-10 11/10/2016				
Depth (ft)	TPHd	TPHo	TPHg	
0 to 1	8.4	130	---	
2 to 3	2.2	<5.0	<1.1	
4½ to 5	<1.0	<5.0	<1.1	
9½ to 10	1.6	<5.0	<1.1	

B-3 2/15/2012				
Depth (ft)	TPHd	TPHo	TPHg	
1.0	---	---	---	

EB-12 11/10/2016				
Depth (ft)	TPHd	TPHo	TPHg	
2 to 3	1.2	<5.0	<1.1	
4½ to 5	<1.0	<5.0	<0.95	
9½ to 10	<1.0	<5.0	<0.93	

EB-15 11/10/2016				
Depth (ft)	TPHd	TPHo	TPHg	
2 to 3	<1.0	<5.0	<0.98	
4½ to 5	<1.0	<5.0	<1.0	
9½ to 10	<0.98	<5.0	<1.1	

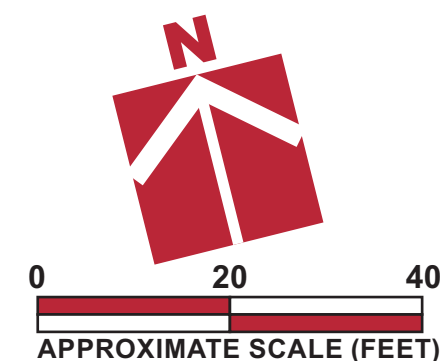
EB-7 11/9/2016				
Depth (ft)	TPHd	TPHo	TPHg	
0 to 1	180	1,200	---	
2 to 3	<1.0	<5.0	<0.98	
4 to 5	<1.0	<5.0	<0.93	
9 to 10	<1.0	<5.0	<0.95	

EB-17 11/9/2016				
Depth (ft)	TPHd	TPHo	TPHg	
0 to 1	10	45	<0.92	
2 to 3	<0.99	<5.0	<1.0	
4 to 5	<1.0	<5.0	<1.0	
9 to 10	<1.0	<5.0	<1.1	

B-1 2/15/2012				
Depth (ft)	TPHd	TPHo	TPHg	
1.0	---	---	---	

Legend

- Approximate location of ground water grab sample (sampled November 10, 2016)
- Approximate location of ground water monitoring well (Salem, June 2012) (sampled August 24, 2016)
- Approximate location of soil boring and ground water grab sample (ASE, April 2005)
- Approximate location of soil boring and soil vapor probe (Salem, February 2012)
- Approximate location of exploratory boring for soil sample collection
- Approximate location of temporary soil vapor probe
- Approximate location of cross section



Base by Google Earth, dated 10/30/2015
 Overlay by Lowney Architecture, Site Plan - A1.1, dated 8/29/2016

Screening Levels

	Residential ESL ¹
TPHd (diesel)	100
TPHo (oil)	100
TPHg (gasoline)	100
Ethyl Benzene	13
Xylenes	20
Napthalene	0.12
TCE	5.0
cDCE	6.0
Vinyl Chloride	0.061

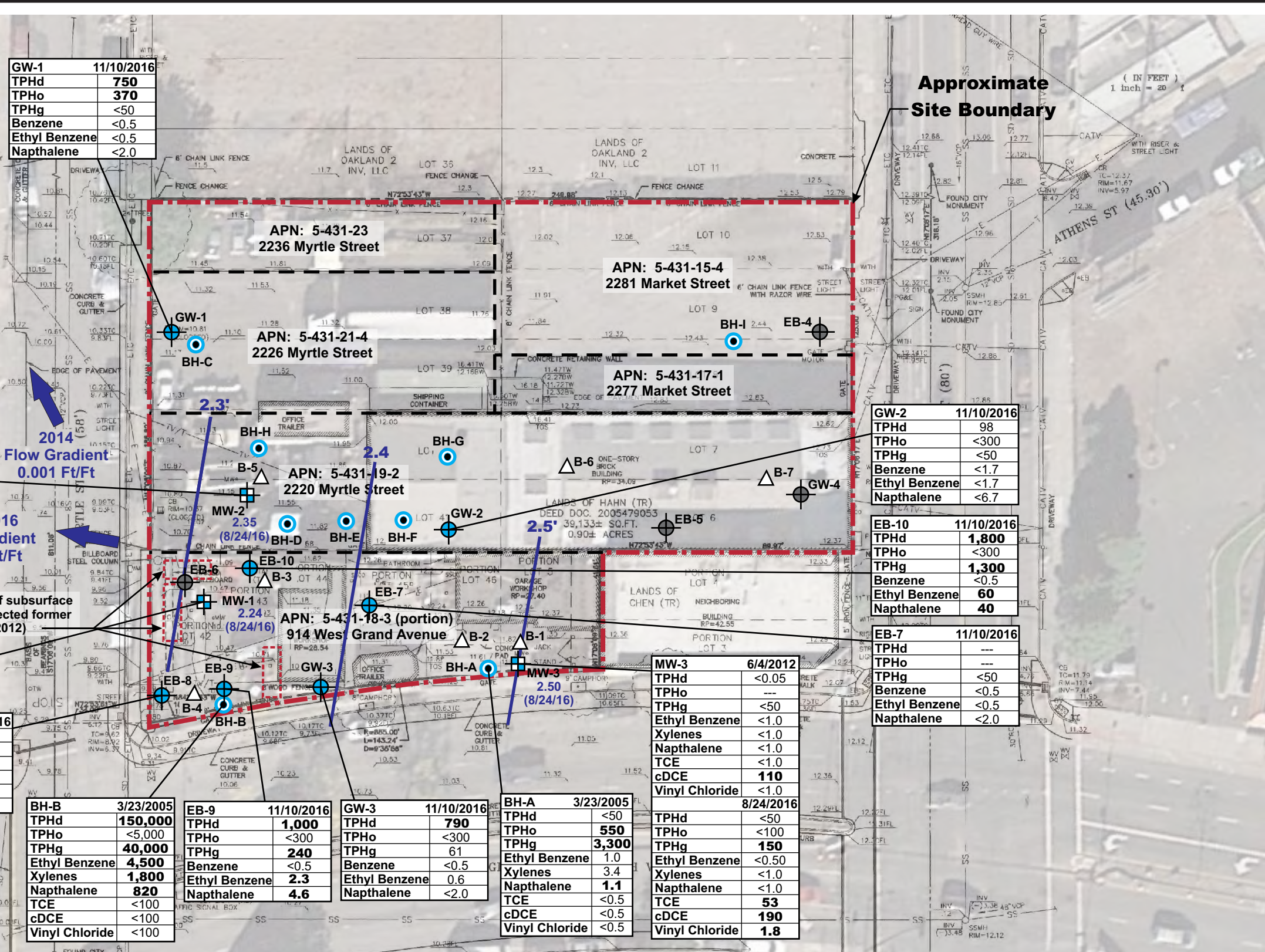
Concentrations measured in µg/L

¹ Environmental Screening Level (ESL), Regional Water Control Board - February 2016, GW Tier 1 ESL

< Not detected at or above laboratory reporting limit

--- Not Analyzed

BOLD Concentration exceeds selected environmental screening criteria or is outside of the published background range



MW-2	6/4/2012
TPHd	<0.05
TPHo	---
TPHg	<50
Ethyl Benzene	<1.0
Xylenes	<1.0
Napthalene	<1.0
TCE	<1.0
cDCE	<1.0
Vinyl Chloride	<1.0

	8/24/2016
TPHd	<52
TPHo	<100
TPHg	<50
Ethyl Benzene	<0.50
Xylenes	<1.0
Napthalene	<1.0
TCE	<0.50
cDCE	<0.50
Vinyl Chloride	<0.50

MW-1	6/4/2012
TPHd	<0.05
TPHo	---
TPHg	3,300
Ethyl Benzene	79
Xylenes	188
Napthalene	37
TCE	<1.0
cDCE	<1.0
Vinyl Chloride	<1.0

	8/24/2016
TPHd	<50
TPHo	<100
TPHg	<50
Ethyl Benzene	<0.50
Xylenes	<1.0
Napthalene	<1.0
TCE	<0.50
cDCE	<0.50
Vinyl Chloride	<0.50

EB-8	11/10/2016
TPHd	180
TPHo	<300
TPHg	<50
Benzene	<0.5
Ethyl Benzene	<0.5
Napthalene	<2.0

BH-B	3/23/2005
TPHd	150,000
TPHo	<5,000
TPHg	40,000
Ethyl Benzene	4,500
Xylenes	1,800
Napthalene	820
TCE	<100
cDCE	<100
Vinyl Chloride	<100

EB-9	11/10/2016
TPHd	1,000
TPHo	<300
TPHg	240
Benzene	<0.5
Ethyl Benzene	2.3
Napthalene	4.6

GW-3	11/10/2016
TPHd	790
TPHo	<300
TPHg	61
Benzene	<0.5
Ethyl Benzene	0.6
Napthalene	<2.0

BH-A	3/23/2005
TPHd	<50
TPHo	550
TPHg	3,300
Ethyl Benzene	1.0
Xylenes	3.4
Napthalene	1.1
TCE	<0.5
cDCE	<0.5
Vinyl Chloride	<0.5

MW-3	6/4/2012
TPHd	<0.05
TPHo	---
TPHg	<50
Ethyl Benzene	<1.0
Xylenes	<1.0
Napthalene	<1.0
TCE	<1.0
cDCE	110
Vinyl Chloride	<1.0

	8/24/2016
TPHd	<50
TPHo	<100
TPHg	150
Ethyl Benzene	<0.50
Xylenes	<1.0
Napthalene	<1.0
TCE	53
cDCE	190
Vinyl Chloride	1.8

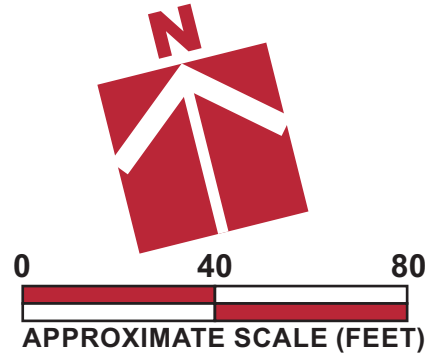
GW-2	11/10/2016
TPHd	98
TPHo	<300
TPHg	<50
Benzene	<1.7
Ethyl Benzene	<1.7
Napthalene	<6.7

EB-10	11/10/2016
TPHd	1,800
TPHo	<300
TPHg	1,300
Benzene	<0.5
Ethyl Benzene	60
Napthalene	40

EB-7	11/10/2016
TPHd	---
TPHo	---
TPHg	<50
Benzene	<0.5
Ethyl Benzene	<0.5
Napthalene	<2.0

Legend

- Approximate location of ground water grab sample (sampled November 10, 2016)
- Approximate location of attempted ground water grab sample - insufficient ground water for sample collection
- Approximate location of ground water monitoring well (Salem, June 2012)
- Approximate location of soil boring and soil vapor probe (Salem, February 2012)
- Approximate location of soil boring and ground water grab sample (ASE, April 2005)
- Ground water elevation (feet above mean sea level [ft msl])



Base by Google Earth, dated 10/30/2015
 Overlay by Lea & Braze Engineering, Inc., Boundary and Topographic Survey - C-1, dated 8/26/2016

On-Site Ground Water Results
914 West Grand Avenue
Residential Development
Oakland, CA



Screening Levels

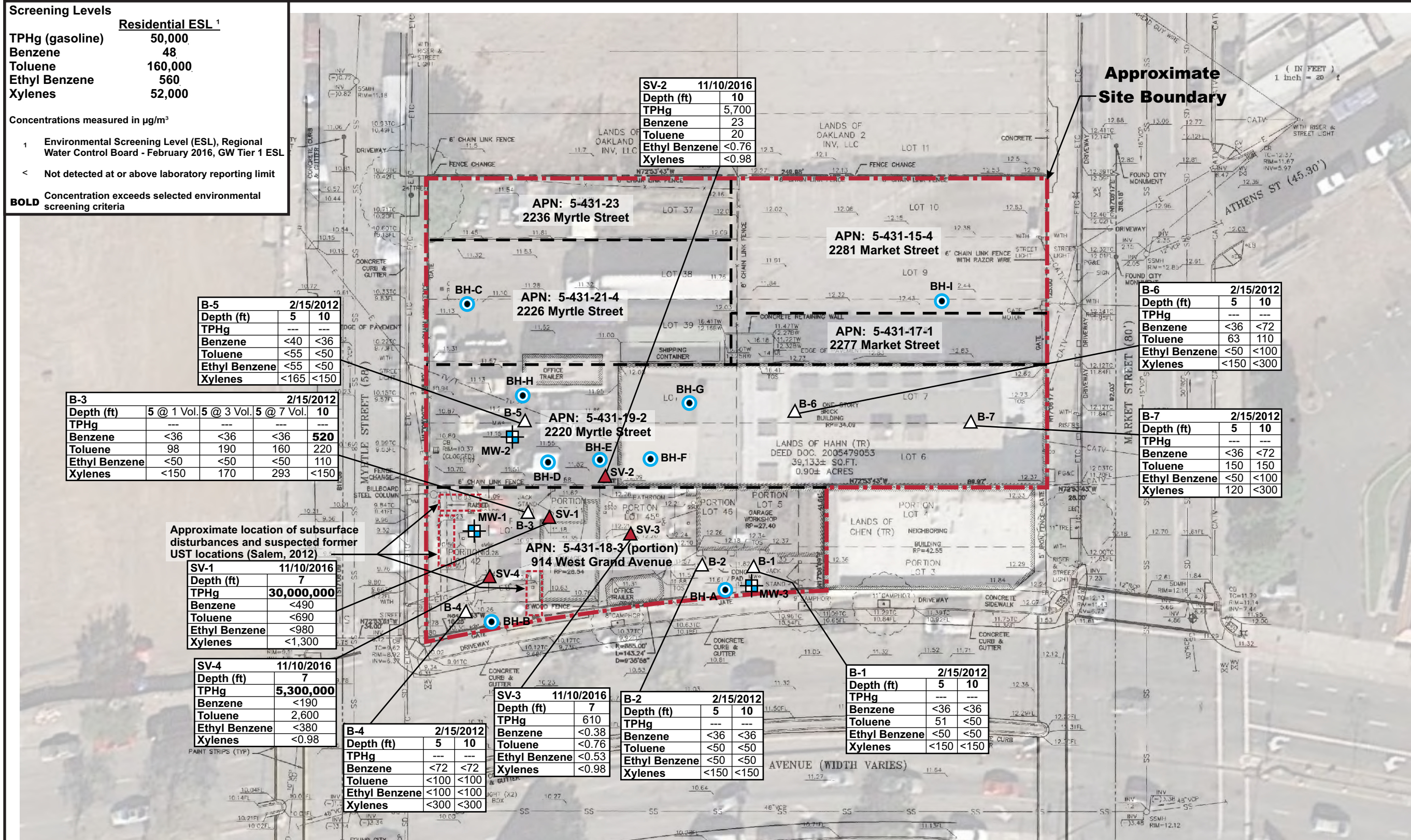
	Residential ESL¹
TPHg (gasoline)	50,000
Benzene	48
Toluene	160,000
Ethyl Benzene	560
Xylenes	52,000

Concentrations measured in µg/m³

¹ Environmental Screening Level (ESL), Regional Water Control Board - February 2016, GW Tier 1 ESL

< Not detected at or above laboratory reporting limit

BOLD Concentration exceeds selected environmental screening criteria



B-5		2/15/2012	
Depth (ft)	5	10	
TPHg	---	---	
Benzene	<40	<36	
Toluene	<55	<50	
Ethyl Benzene	<55	<50	
Xylenes	<165	<150	

B-3		2/15/2012	
Depth (ft)	5 @ 1 Vol.	5 @ 3 Vol.	5 @ 7 Vol.
TPHg	---	---	---
Benzene	<36	<36	520
Toluene	98	190	220
Ethyl Benzene	<50	<50	110
Xylenes	<150	170	293

Approximate location of subsurface disturbances and suspected former UST locations (Salem, 2012)

SV-1		11/10/2016	
Depth (ft)	7		
TPHg	30,000,000		
Benzene	<490		
Toluene	<690		
Ethyl Benzene	<980		
Xylenes	<1,300		

SV-4		11/10/2016	
Depth (ft)	7		
TPHg	5,300,000		
Benzene	<190		
Toluene	2,600		
Ethyl Benzene	<380		
Xylenes	<0.98		

B-4		2/15/2012	
Depth (ft)	5	10	
TPHg	---	---	
Benzene	<72	<72	
Toluene	<100	<100	
Ethyl Benzene	<100	<100	
Xylenes	<300	<300	

SV-3		11/10/2016	
Depth (ft)	7		
TPHg	610		
Benzene	<0.38		
Toluene	<0.76		
Ethyl Benzene	<0.53		
Xylenes	<0.98		

B-2		2/15/2012	
Depth (ft)	5	10	
TPHg	---	---	
Benzene	<36	<36	
Toluene	<50	<50	
Ethyl Benzene	<50	<50	
Xylenes	<150	<150	

B-1		2/15/2012	
Depth (ft)	5	10	
TPHg	---	---	
Benzene	<36	<36	
Toluene	51	<50	
Ethyl Benzene	<50	<50	
Xylenes	<150	<150	

SV-2		11/10/2016	
Depth (ft)	10		
TPHg	5,700		
Benzene	23		
Toluene	20		
Ethyl Benzene	<0.76		
Xylenes	<0.98		

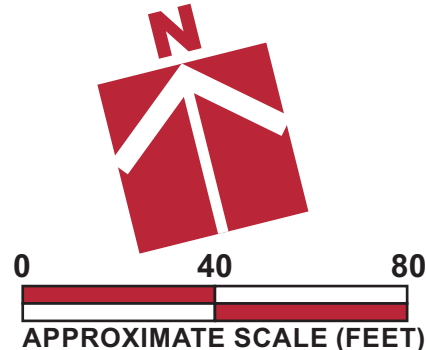
Approximate Site Boundary

B-6		2/15/2012	
Depth (ft)	5	10	
TPHg	---	---	
Benzene	<36	<72	
Toluene	63	110	
Ethyl Benzene	<50	<100	
Xylenes	<150	<300	

B-7		2/15/2012	
Depth (ft)	5	10	
TPHg	---	---	
Benzene	<36	<72	
Toluene	150	150	
Ethyl Benzene	<50	<100	
Xylenes	120	<300	

Legend

- Approximate location of temporary soil vapor probe
- Approximate location of ground water monitoring well (Salem, June 2012)
- Approximate location of soil boring and soil vapor probe (Salem, February 2012)
- Approximate location of soil boring and ground water grab sample (ASE, April 2005)



Base by Google Earth, dated 10/30/2015
 Overlay by Lea & Braze Engineering, Inc., Boundary and Topographic Survey - C-1, dated 8/26/2016



EB-9		11/9/2016	
Sample depth (ft)	5	13½	
Arsenic	<9.4	<9.4	
Lead	<9.4	<9.4	
Benzo[a]pyrene	<0.001	<0.001	
Benzo[b]fluoranthene	<0.001	<0.001	
Dibenz(a,h)anthracene	<0.001	<0.001	

EB-7		11/9/2016	
Sample depth (ft)	1	3	5
Arsenic	9.3	---	---
Lead	404	<9.5	<10
Benzo[a]pyrene	<0.005	---	---
Benzo[b]fluoranthene	<0.005	---	---
Dibenz(a,h)anthracene	<0.005	---	---

BH-F		3/23/2005	
Sample depth (ft)	2.0		
TPHd	<1.0		
TPHg	<5.0		
Ethyl Benzene	<0.005		
Xylenes	<0.005		

EB-3		11/9/2016	
Sample depth (ft)	1	3	
Arsenic	4.75	3.09	
Lead	139	77.5	
Benzo[a]pyrene	0.24	---	
Benzo[b]fluoranthene	0.25	---	
Dibenz(a,h)anthracene	0.022	---	

EB-4		11/9/2016	
Sample depth (ft)	1	3	5
Arsenic	4.43	3.7	---
Lead	529	345	<9.7
Benzo[a]pyrene	0.0068	---	---
Benzo[b]fluoranthene	0.0086	---	---
Dibenz(a,h)anthracene	0.0011	---	---

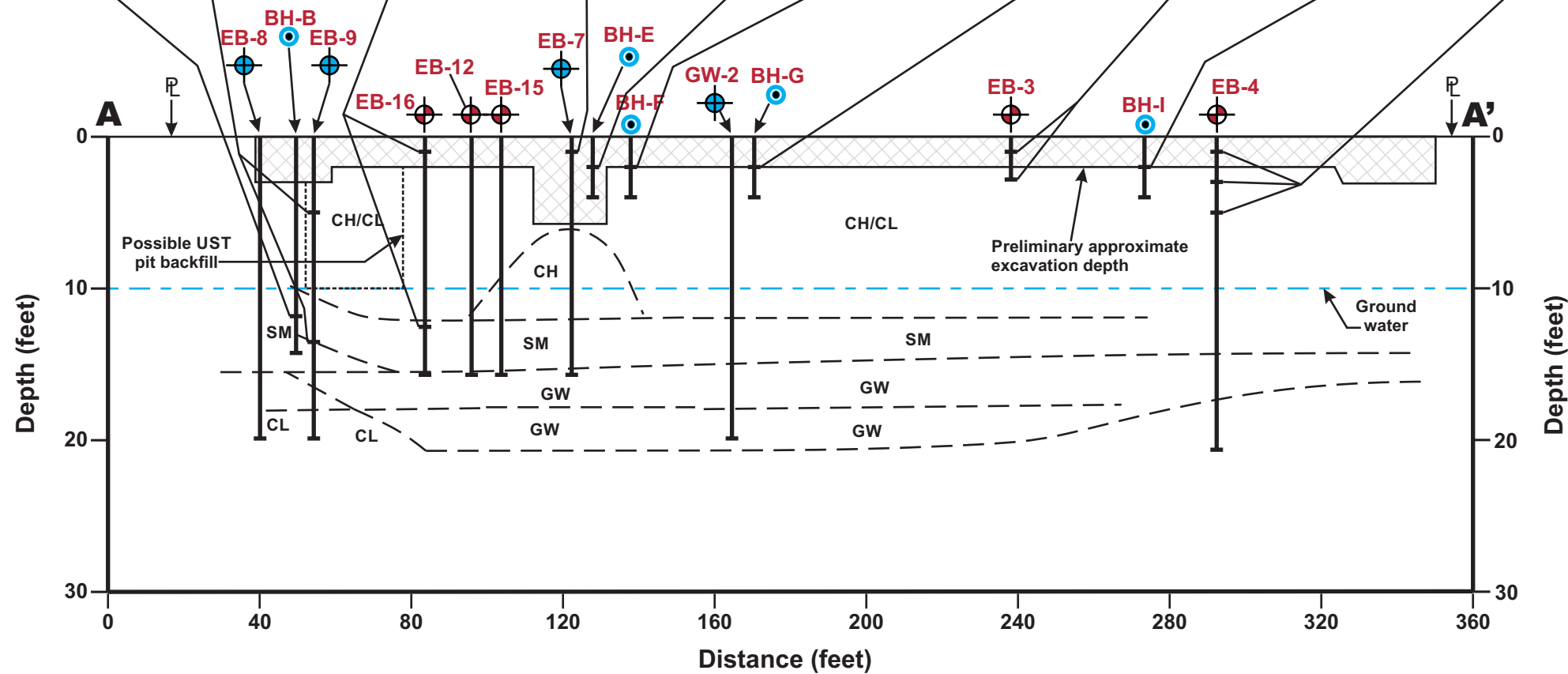
BH-B		3/23/2005	
Sample depth (ft)	11.5		
TPHd	370		
TPHg	2,100		
Ethyl Benzene	27		
Xylenes	6.1		

EB-16		11/10/2016	
Sample depth (ft)	1	12½	
Arsenic	3.35	6.7	
Lead	13.3	7.59	
Benzo[a]pyrene	<0.001	0.0027	
Benzo[b]fluoranthene	<0.001	0.0024	
Dibenz(a,h)anthracene	<0.001	<0.001	

BH-E		3/23/2005	
Sample depth (ft)	2.0		
TPHd	<1.0		
TPHg	<5.0		
Ethyl Benzene	<0.005		
Xylenes	<0.005		

BH-G		3/23/2005	
Sample depth (ft)	2.0		
TPHd	<1.0		
TPHg	<5.0		
Ethyl Benzene	<0.005		
Xylenes	<0.005		

BH-I		3/23/2005	
Sample depth (ft)	2.0		
TPHd	<1.0		
TPHg	<5.0		
Ethyl Benzene	<0.005		
Xylenes	<0.005		



Symbols

- CL Lean Clay or sandy clay
- CH Fat Clay
- SM Silty Sand
- GW Well Graded Gravel

○ Approximate location of soil boring and ground water grab sample (ASE, April 2005)

⊕ Approximate location of ground water grab sample (sampled November 10, 2016)

⊙ Approximate location of exploratory boring for soil sample collection

ℙ Property line

Environmental Screening Levels

TPHd	230 mg/kg
TPHg	100 mg/kg
Ethyl Benzene	14 mg/kg
Total Xylenes	6.1 mg/kg

Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - February 2016

Section A-A'

(View Looking Northwest)
1"=40' Horizontal
1"=10' Vertical

Notes:

- 1) Surficial fills associated with existing pavements, landscaping or utilities are not shown.
- 2) The subsurface profile is conceptual and is based on limited subsurface data obtained from widely spaced borings. Actual subsurface conditions may vary significantly between borings.
- 3) See Figure 2 for location of cross section.

Project Number
914-1-3

Figure Number
Figure 7

Date
December 2016

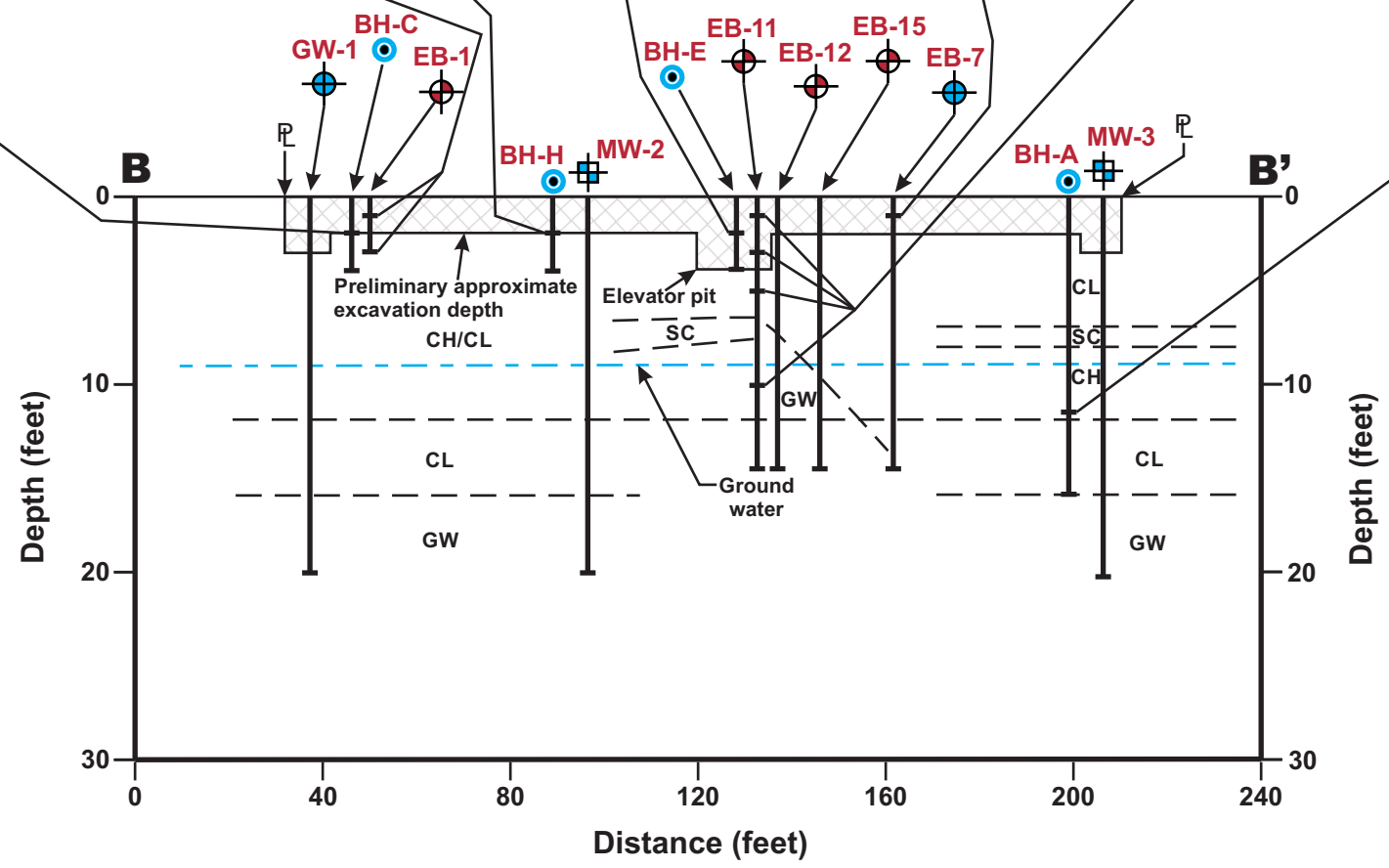
Drawn By
RRN

Geologic Cross Section A-A'
with Soil Results

914 West Grand Avenue
Residential Development
Oakland, CA



BH-C 3/23/2005	EB-1 11/9/2016	BH-H 3/23/2005	BH-E 3/23/2005	EB-7 11/9/2016	EB-11 11/10/2016	BH-A 3/23/2005
Sample depth (ft) 2.0	Sample depth (ft) 1 3	Sample depth (ft) 2.0	Sample depth (ft) 2.0	Sample depth (ft) 1	Sample depth (ft) 1 3 5 10	Sample depth (ft) 11.5
TPHd <1.0	Arsenic 6.64 1.53	TPHd <1.0	TPHd <1.0	Arsenic 9.3	Arsenic 6.72 2.04 <10 13	TPHd <1.0
TPHg <5.0	Lead 92.5 4.84	TPHg <5.0	TPHg <5.0	Lead 404	Lead 222 5.89 <10 <10	TPHg <1.0
Ethyl Benzene <0.005	Benzo[a]pyrene <0.00099 ---	Ethyl Benzene <0.005	Ethyl Benzene <0.005	Benzo[a]pyrene <0.005	Benzo[a]pyrene <0.001 <0.00099 <0.00099 <0.001	Ethyl Benzene <0.005
Xylenes 0.018	Benzo[b]fluoranthene <0.00099 ---	Xylenes <0.005	Xylenes <0.005	Benzo[b]fluoranthene <0.005	Benzo[b]fluoranthene <0.001 <0.00099 <0.00099 <0.001	Xylenes <0.0054
	Dibenz(a,h)anthracene <0.001 ---			Dibenz(a,h)anthracene <0.005	Dibenz(a,h)anthracene <0.001 <0.00099 <0.00099 <0.001	



Section B-B'
(View Looking East)
1"=40' Horizontal
1"=10' Vertical

- Symbols**
- CL Lean Clay or sandy clay
 - CH Fat Clay
 - SC Clayey Sand
 - SM Silt
 - GW Well Graded Gravel

- Approximate location of ground water monitoring well (Salem, June 2012)
- Approximate location of soil boring and ground water grab sample (ASE, April 2005)
- Approximate location of ground water grab sample (sampled November 10, 2016)
- Approximate location of exploratory boring for soil sample collection
- Property line

Environmental Screening Levels

TPHd	230 mg/kg
TPHg	100 mg/kg
Ethyl Benzene	14 mg/kg
Total Xylenes	6.1 mg/kg

Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - February 2016

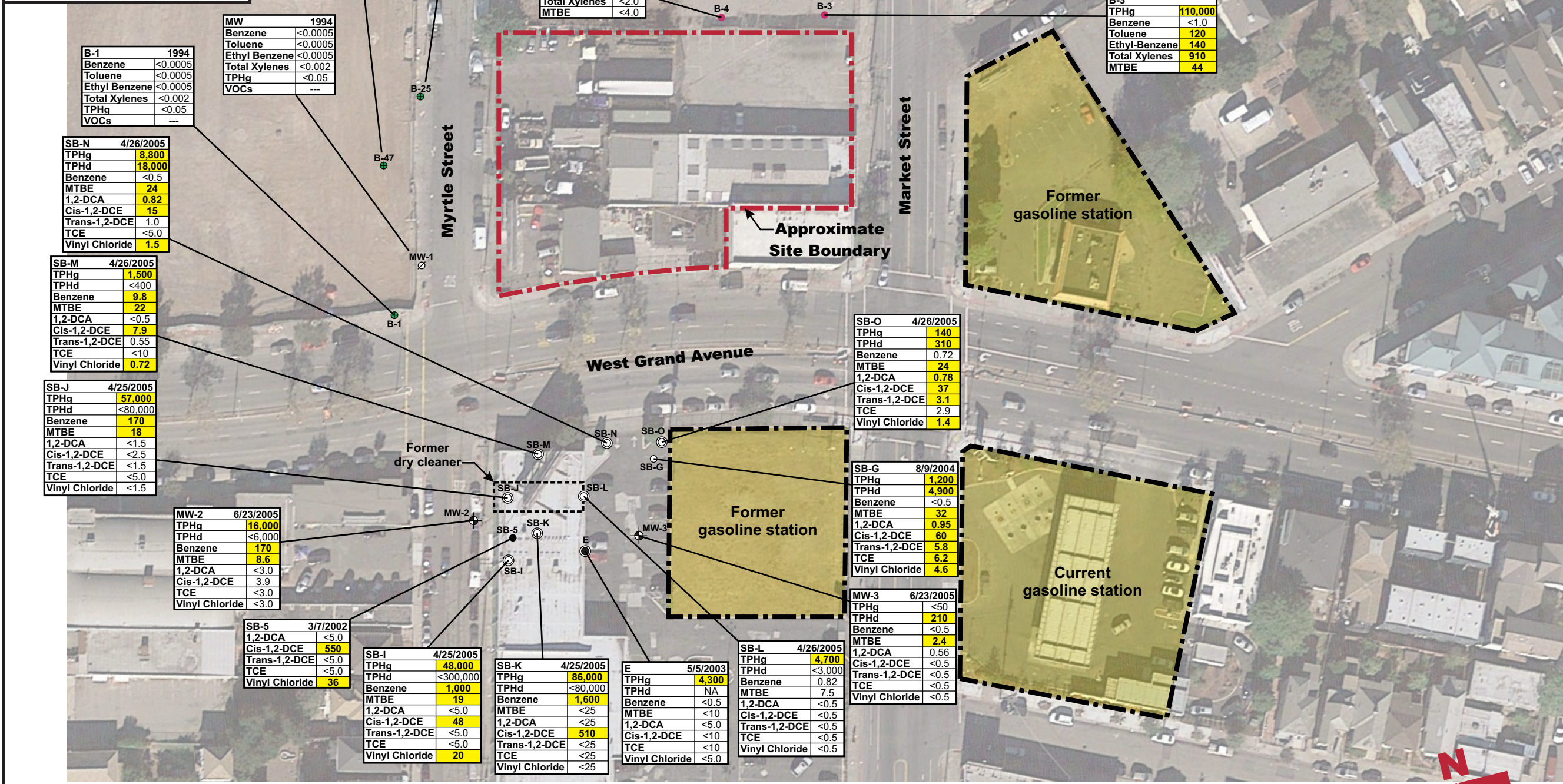
- Notes:
- 1) Surficial fills associated with existing pavements, landscaping or utilities are not shown.
 - 2) The subsurface profile is conceptual and is based on limited subsurface data obtained from widely spaced borings. Actual subsurface conditions may vary significantly between borings.
 - 3) See Figure 2 for location of cross section.

Project Number 914-1-3	Figure Number Figure 8	Date November 2016	Drawn By RRN
Geologic Cross Section B-B' with Soil Results			
914 West Grand Avenue Residential Development Oakland, CA			

Screening Levels

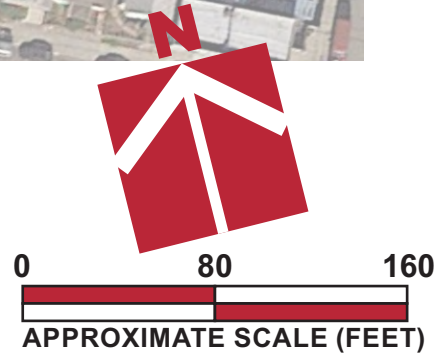
	Environmental Screening Levels
TPHg	100
TPHd	100
Benzene	1.0
MTBE	5.0
1,2-DCA	0.5
Cis-1,2-DCE	6.0
Trans-1,2-DCE	10
TCE	5.0
Vinyl Chloride	0.061

Concentration measured in µg/L



Legend

- Approximate location of previous soil boring (B) (1994)
- Approximate location of previous boring (SB) (Golden Gate Tank Removal, Inc., August 2004)
- Approximate location of previous boring (SB) (Stantec, 2005)
- Approximate location of previous boring (SB) (Golden Gate Tank Removal, Inc., March 2002)
- Approximate location of previous boring (SB) (Golden Gate Tank Removal, Inc., May 2003)
- Approximate location of former ground water monitoring well (MW) (1994)
- ⊕ Approximate location of previous monitoring well (MW) (Golden Gate Tank Removal, Inc., August 2004)
- Approximate location of previous boring (SB) (Golden Gate Tank Removal, Inc., April 2005)



Base by Google Earth, dated 10/30/2015

APPENDIX A –BORING LOGS, AND DRILLING PERMITS



CORNERSTONE EARTH GROUP

BORING NUMBER EB-1

PAGE 1 OF 1

DATE STARTED 11/9/16 DATE COMPLETED 11/9/16
 DRILLING CONTRACTOR Penecore
 DRILLING METHOD Geoprobe 6612DT
 LOGGED BY RRB
 NOTES _____

PROJECT NAME 914 West Grand Avenue
 PROJECT NUMBER 914-1-3
 PROJECT LOCATION Oakland, CA
 GROUND ELEVATION _____ BORING DEPTH 5 ft.
 LATITUDE _____ LONGITUDE _____
 GROUND WATER LEVELS:
 ▽ AT TIME OF DRILLING Not Encountered
 ▼ AT END OF DRILLING Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		3 inches asphalt concrete over 3 inches aggregate base			x				
			Lean Clay (CL) stiff, moist, light gray			x	100	0.1	None	
	5		Bottom of Boring at 5.0 feet.			x				



CORNERSTONE EARTH GROUP

BORING NUMBER EB-2

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
 PROJECT NUMBER 914-1-3
 PROJECT LOCATION Oakland, CA
 GROUND ELEVATION _____ BORING DEPTH 5 ft.
 LATITUDE _____ LONGITUDE _____
 GROUND WATER LEVELS:
 ▽ AT TIME OF DRILLING Not Encountered
 ▼ AT END OF DRILLING Not Encountered

DATE STARTED 11/9/16 DATE COMPLETED 11/9/16
 DRILLING CONTRACTOR Penecore
 DRILLING METHOD Geoprobe 6612DT
 LOGGED BY RRB
 NOTES _____

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		Well-Graded Gravel with Sand (GW) dense, moist, dark brown, coarse gravel			x				
			Lean Clay (CL) stiff, moist, gray			x	100	0.1-0.3	None	
	5		Bottom of Boring at 5.0 feet.			x				



CORNERSTONE EARTH GROUP

BORING NUMBER EB-3

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
 PROJECT NUMBER 914-1-3
 PROJECT LOCATION Oakland, CA
 GROUND ELEVATION _____ BORING DEPTH 5 ft.
 LATITUDE _____ LONGITUDE _____
 GROUND WATER LEVELS:
 ▽ AT TIME OF DRILLING Not Encountered
 ▼ AT END OF DRILLING Not Encountered

DATE STARTED 11/9/16 DATE COMPLETED 11/9/16
 DRILLING CONTRACTOR Penecore
 DRILLING METHOD Geoprobe 6612DT
 LOGGED BY RRB
 NOTES _____

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		3 inches asphalt concrete over 3 inches aggregate base			x				
			Lean Clay (CL) stiff, moist, light gray			x	90	0.1-0.3	None	
	5		Bottom of Boring at 5.0 feet.			x				



CORNERSTONE EARTH GROUP

BORING NUMBER EB-4

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
 PROJECT NUMBER 914-1-3
 PROJECT LOCATION Oakland, CA
 GROUND ELEVATION _____ BORING DEPTH 20 ft.
 LATITUDE _____ LONGITUDE _____
 GROUND WATER LEVELS:
 ▽ AT TIME OF DRILLING Not Encountered
 ▼ AT END OF DRILLING Not Encountered

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		3 inches asphalt concrete over 3 inches aggregate base							
			Lean Clay (CL) stiff, moist, light gray				90	0.0	None	
	5									
	10									
			Well-Graded Gravel with Sand (GW) dense, moist, brown-gray, coarse gravel				60	0.0	None	
	15									
			Lean Clay (CL) stiff, moist, light brown				80	0.0	None	
	20		Bottom of Boring at 20.0 feet.							

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CORNERSTONE EARTH GROUP

BORING NUMBER EB-5

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
GROUND ELEVATION _____ **BORING DEPTH** 15 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
 AT TIME OF DRILLING Not Encountered
 AT END OF DRILLING Not Encountered

DATE STARTED 11/9/16 **DATE COMPLETED** 11/9/16
DRILLING CONTRACTOR Penecore
DRILLING METHOD Geoprobe 6612DT
LOGGED BY RRB
NOTES _____

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		6 inches Portland cement concrete							
			Lean Clay (CL) stiff, moist, light gray			x				
						x	95	0.0	None	
						x				
						x	100	0.0	None	
						x				
						x	100	0.0	None	
						x				
	15		Bottom of Boring at 15.0 feet.							

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CORNERSTONE EARTH GROUP

BORING NUMBER EB-6

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
GROUND ELEVATION _____ **BORING DEPTH** 20 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
 ▽ **AT TIME OF DRILLING** Not Encountered
 ▼ **AT END OF DRILLING** Not Encountered

DATE STARTED 11/9/16 **DATE COMPLETED** 11/9/16
DRILLING CONTRACTOR Penecore
DRILLING METHOD Geoprobe 6612DT
LOGGED BY RRB
NOTES _____

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
0	0	[Dotted pattern]	Poorly Graded Sand (SP) moist, light brown, fine sand					0		
						x	60	0	None	
								0		
	5	[Diagonal hatching]	Clayey Sand (SC) moist, light brown to gray, fine sand			x		5.0		
							40	27.3	None	
								53.5		
	10	[Stippled pattern]	Gravel with Sand (GW) tan			x		788		
			becomes blue-green, strong odor				50	430	12-13' Blue-green discoloration with strong odor	
								10		
	15	[Horizontal hatching]	Silty Clay (CL-ML) light brown, fine sand			x		0		
								0	None	
								0		
	20		Bottom of Boring at 20.0 feet.							

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CORNERSTONE EARTH GROUP

BORING NUMBER EB-7

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
GROUND ELEVATION _____ **BORING DEPTH** 15 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
 ▽ **AT TIME OF DRILLING** Not Encountered
 ▼ **AT END OF DRILLING** Not Encountered

DATE STARTED 11/9/16 **DATE COMPLETED** 11/9/16
DRILLING CONTRACTOR Penecore
DRILLING METHOD Geoprobe 6612DT
LOGGED BY BMJ
NOTES _____

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		8 inches Portland cement concrete with rebar							
			Fat Clay (CH) moist, dark gray			x		0.0		
						x	60		None	
						x		0.2		
	5		Lean Clay (CL) moist, light brown, fine sand			x		0.0		
							100	0.0	None	
						x		0.6		
	10		Lean Clay with Sand (CL) blue-gray to tan, poorly sorted sand			x		0.0		
							100	0.0	None	
						x		0.0		
	15		Bottom of Boring at 15.0 feet.							
	20									



PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
DATE STARTED 11/9/16 **DATE COMPLETED** 11/9/16
GROUND ELEVATION _____ **BORING DEPTH** 20 ft.
DRILLING CONTRACTOR Penecore
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD Geoprobe 6612DT
GROUND WATER LEVELS:
LOGGED BY BMJ
 ▽ **AT TIME OF DRILLING** Not Encountered
 ▼ **AT END OF DRILLING** Not Encountered
NOTES _____

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		3 inches asphalt concrete over 3 inches aggregate base							
			Fat Clay (CH) moist, dark gray, trace fine sand			x		0		
							100	0	None	
								0		
	5		Lean Clay (CL) moist, light brown to brown, trace fine sand			x		0		
							80	0	None	
								0		
	10		Sandy Lean Clay (CL) moist to wet, blue-green to blue-gray, fine sand			x		0		
							70	0	12-13' Blue-green discoloration No odor	
								0		
	15		Clayey Sand (SC) light brown, fine to medium sand			x		0		
								0		
			Silty Clay (CL-ML) moist, light brown, trace fine sand				75	0	None	
								0		
	20		Bottom of Boring at 20.0 feet.					0		



CORNERSTONE EARTH GROUP

BORING NUMBER EB-9

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
GROUND ELEVATION _____ **BORING DEPTH** 20 ft.
LATITUDE _____ **LONGITUDE** _____
DATE STARTED 11/10/16 **DATE COMPLETED** 11/10/16
DRILLING CONTRACTOR Penecore
DRILLING METHOD Geoprobe 6612DT
LOGGED BY RRB
NOTES _____

GROUND WATER LEVELS:
 ▽ **AT TIME OF DRILLING** Not Encountered
 ▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
0	0		Lean Clay (CL) stiff, moist, light gray			x				
						x	40	0.1-0.3	None	
						x				
							100	0.5-1.0	None	
						x		24.2		
								355		
			Well-Graded Gravel with Sand (GW) dense, moist, gray-brown, coarse gravel				100	528	Gasoline odor	
								20.5		
			Lean Clay (CL) stiff, moist, brown			x		7.7		
							100	0.1-0.3	None	
			becomes light gray							
	20		Bottom of Boring at 20.0 feet.							

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PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
GROUND ELEVATION _____ **BORING DEPTH** 15 ft.
LATITUDE _____ **LONGITUDE** _____
DATE STARTED 11/10/16 **DATE COMPLETED** 11/10/16
DRILLING CONTRACTOR Penecore
DRILLING METHOD Geoprobe 6612DT
LOGGED BY RRB
NOTES _____
GROUND WATER LEVELS:
 ▽ **AT TIME OF DRILLING** Not Encountered
 ▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		3 inches asphalt concrete over 3 inches aggregate base			x				
			Lean Clay (CL) stiff, moist, light gray			x	80	0.1-1.3	None	
	5					x		0.1		
							100	0.3		
			Well-Graded Gravel with Sand (GW) dense, moist, brown, coarse gravel					0.2	None	
	10					x		0.5		
			Lean Clay (CL) stiff, moist, light brown					0.6		
			Well-Graded Gravel (GW) dense, moist, gray-brown, coarse gravel				100	0.1-0.3	None	
	15		Bottom of Boring at 15.0 feet.			x				
	20									



CORNERSTONE EARTH GROUP

BORING NUMBER EB-11

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
DATE STARTED 11/10/16 **DATE COMPLETED** 11/10/16
GROUND ELEVATION _____ **BORING DEPTH** 15 ft.
DRILLING CONTRACTOR Penecore
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD Geoprobe 6612DT
GROUND WATER LEVELS:
LOGGED BY RRB ▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____ ▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		3 inches asphalt concrete over 3 inches aggregate base			x				
			Lean Clay (CL) stiff, moist, dark gray			x	80	0.0-0.3	None	
	5					x				
			Clayey Sand with Gravel (SC) dense, moist, light gray				100	0.4-2.2	None	
	10					x				
			brick fragments				80	0.1-0.3	None	
			Well-Graded Gravel (GW) coarse gravel			x				
	15		Bottom of Boring at 15.0 feet.							
	20									



**CORNERSTONE
EARTH GROUP**

PROJECT NAME 914 West Grand Avenue

PROJECT NUMBER 914-1-3

PROJECT LOCATION Oakland, CA

DATE STARTED 11/10/16 DATE COMPLETED 11/10/16

GROUND ELEVATION _____ BORING DEPTH 15 ft.

DRILLING CONTRACTOR Penecore

LATITUDE _____ LONGITUDE _____

DRILLING METHOD Geoprobe 6612DT

GROUND WATER LEVELS:

LOGGED BY RRB

▽ AT TIME OF DRILLING Not Encountered

NOTES _____

▼ AT END OF DRILLING Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		3 inches asphalt concrete over 3 inches aggregate base			x				
			Lean Clay (CL) stiff, moist, light gray			x	90	0.1-1.3	None	
	5					x		6.9		
							100	6.1		
								3.5	None	
	10					x		1.0		
								0.9		
								12.5		
			Well-Graded Gravel with Sand (GW) dense, moist, brown-red, petroleum odor at 12'				100	309		
								578	12' Petroleum Odor	
								15.7		
	15		Bottom of Boring at 15.0 feet.			x		21.9		

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CORNERSTONE EARTH GROUP

BORING NUMBER EB-13

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
GROUND ELEVATION _____ **BORING DEPTH** 15 ft.
LATITUDE _____ **LONGITUDE** _____
DATE STARTED 11/9/16 **DATE COMPLETED** 11/9/16
DRILLING CONTRACTOR Penecore
DRILLING METHOD Geoprobe 6612DT
LOGGED BY BMJ
NOTES _____
GROUND WATER LEVELS:
 ▽ **AT TIME OF DRILLING** Not Encountered
 ▼ **AT END OF DRILLING** Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		3 inches asphalt concrete over 3 inches aggregate base			x				
			Fat Clay (CH) dark gray, fine sand			x	99	0	None	
			Lean Clay (CL) light brown, fine sand			x		0		
	5						80	0	None	
			Clayey Sand (SC) moist, fine sand, blue-gray to tan			x		0		
	10					x		34		
						x	70	349	Strong Odor	
	15		Bottom of Boring at 15.0 feet.			x		11.9		



CORNERSTONE EARTH GROUP

BORING NUMBER EB-14

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
GROUND ELEVATION _____ **BORING DEPTH** 15 ft.
LATITUDE _____ **LONGITUDE** _____
DATE STARTED 11/9/16 **DATE COMPLETED** 11/9/16
DRILLING CONTRACTOR Penecore
DRILLING METHOD Geoprobe 6612DT
LOGGED BY BMJ
NOTES _____

GROUND WATER LEVELS:
 AT TIME OF DRILLING Not Encountered
 AT END OF DRILLING Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
0	0		3 inches asphalt concrete over 3 inches aggregate base							
			Poorly Graded Sand (SP) [Fill] fine sand			x	60	0	None	
						x		0		
	5		Clayey Sand (SC)			x		204.3		
						x	80	68.7	None	
						x		20.1		
	10		Well-Graded Gravel with Clay and Sand (GW-GC) moist to wet, light gray to blue-gray, fine to coarse sand, fine gravel			x		142.9		
						x	70	1134	Blue gray discoloration Very strong odor	
						x		69		
	15		Bottom of Boring at 15.0 feet.							



CORNERSTONE EARTH GROUP

BORING NUMBER EB-15

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
GROUND ELEVATION _____ **BORING DEPTH** 15 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
 AT TIME OF DRILLING Not Encountered
 AT END OF DRILLING Not Encountered

DATE STARTED 11/10/16 **DATE COMPLETED** 11/10/16
DRILLING CONTRACTOR Penecore
DRILLING METHOD Geoprobe 6612DT
LOGGED BY RRB
NOTES _____

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		3 inches asphalt concrete over 3 inches aggregate base							
			Lean Clay (CL) stiff, moist, dark gray				90	0.1-0.3	None	
	5		brick				100	0.1-0.5	None	
			Well-Graded Gravel with Sand (GW) dense, moist, brown-gray, coarse gravel				100	0.1-0.3	None	
	15		Bottom of Boring at 15.0 feet.							



CORNERSTONE EARTH GROUP

BORING NUMBER EB-16

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
GROUND ELEVATION _____ **BORING DEPTH** 15 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
 AT TIME OF DRILLING Not Encountered
 AT END OF DRILLING Not Encountered

DATE STARTED 11/10/16 **DATE COMPLETED** 11/10/16
DRILLING CONTRACTOR Penecore
DRILLING METHOD Geoprobe 6612DT
LOGGED BY RRB
NOTES _____

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
0	0		3 inches asphalt concrete over 3 inches aggregate base							
			Lean Clay (CL) stiff, moist, light gray				90	0.1-0.3	None	
			Clayey Sand with Gravel (SC) dense, moist, light brown				100	0.3-1.6	None	
			Well-Graded Gravel with Clay and Sand (GW-GC) dense, moist, brown-gray				80	133.9 708 28.6 8.6	Petroleum Odor	
			Lean Clay (CL)							
	15		Bottom of Boring at 15.0 feet.							

CORNERSTONE GE LOG DEC192007 - CORNERSTONE 0812.GDT - 11/28/16 15:07 - P:\DRAFTING\GINT FILES\914-1-3 914 W GRAND GE SV.GPJ



CORNERSTONE EARTH GROUP

BORING NUMBER EB-17

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
 PROJECT NUMBER 914-1-3
 PROJECT LOCATION Oakland, CA
 GROUND ELEVATION _____ BORING DEPTH 15 ft.
 LATITUDE _____ LONGITUDE _____
 GROUND WATER LEVELS:
 ▽ AT TIME OF DRILLING Not Encountered
 ▼ AT END OF DRILLING Not Encountered

DATE STARTED 11/9/16 DATE COMPLETED 11/9/16
 DRILLING CONTRACTOR Penecore
 DRILLING METHOD Geoprobe 6612DT
 LOGGED BY BMJ
 NOTES _____

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		4 inches Portland cement concrete over 4 inches aggregate base			x				
			Fat Clay (CH) moist, dark gray			x	80	0.0	None	
	5		Lean Clay with Sand (CL) moist, light brown			x	100	0.0	None	
	10		Poorly Graded Sand with Clay (SP-SC) wet, light brown, fine to medium sand			x	70	0.0	None	
	15		Bottom of Boring at 15.0 feet.			x		0.0		

CORNERSTONE GE LOG DEC192007 - CORNERSTONE 0812.GDT - 11/28/16 15:07 - P:\DRAFTING\GINT FILES\914-1-3 914 W GRAND GE SV.GPJ



CORNERSTONE EARTH GROUP

BORING NUMBER GW-1

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
GROUND ELEVATION _____ **BORING DEPTH** 20 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
 AT TIME OF DRILLING Not Encountered
 AT END OF DRILLING Not Encountered

DATE STARTED 11/9/16 **DATE COMPLETED** 11/9/16
DRILLING CONTRACTOR Penecore
DRILLING METHOD Geoprobe 6612DT
LOGGED BY RRB
NOTES _____

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
0	0		3 inches asphalt concrete over 3 inches aggregate base					0.1		
			Lean Clay (CL) stiff, moist, gray				100	51.5		
								13.2	None	
								0.5		
								0.3		
	5		becomes sandy				60	0.1	None	
								0.2		
	10						60	0.1	None	
	15						100	0.1-0.3	None	
	20		Bottom of Boring at 20.0 feet.							



CORNERSTONE EARTH GROUP

BORING NUMBER GW-2

PAGE 1 OF 1

DATE STARTED 11/9/16 DATE COMPLETED 11/9/16
 DRILLING CONTRACTOR Penecore
 DRILLING METHOD Geoprobe 6612DT
 LOGGED BY RRB
 NOTES _____

PROJECT NAME 914 West Grand Avenue
 PROJECT NUMBER 914-1-3
 PROJECT LOCATION Oakland, CA
 GROUND ELEVATION _____ BORING DEPTH 20 ft.
 LATITUDE _____ LONGITUDE _____
 GROUND WATER LEVELS:
 ▽ AT TIME OF DRILLING Not Encountered
 ▼ AT END OF DRILLING Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
0	0		4 inches asphalt concrete over 6 inches aggregate base							
			Lean Clay (CL) stiff, moist, light gray				80	0.6 5.2 4.2 6.3	1' Motor oil odor	
			becomes sandy				100	0.1-0.3		
			Well-Graded Gravel with Sand (GW) dense, moist, brown, coarse gravel				100	0.1-0.3		
			Bottom of Boring at 20.0 feet.				0			



CORNERSTONE EARTH GROUP

BORING NUMBER GW-3

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
GROUND ELEVATION _____ **BORING DEPTH** 20 ft.
LATITUDE _____ **LONGITUDE** _____
GROUND WATER LEVELS:
 AT TIME OF DRILLING Not Encountered
 AT END OF DRILLING Not Encountered

DATE STARTED 11/9/16 **DATE COMPLETED** 11/9/16
DRILLING CONTRACTOR Penecore
DRILLING METHOD Geoprobe 6612DT
LOGGED BY RRB
NOTES _____

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
0	0		4 inches asphalt concrete over 3 inches aggregate base							
			Lean Clay (CL) stiff, moist, light gray				40	0.1	None	
	5						100	0.1	None	
			Clayey Sand with Gravel (SC) dense, moist, gray, gasoline odor				100	0.3	None	
								5.0		
								173.8	Gasoline odor	
								46.5		
								7.7		
	15		Lean Clay (CL)				100	0.1-0.3	None	
	20		Bottom of Boring at 20.0 feet.							



CORNERSTONE EARTH GROUP

BORING NUMBER GW-4

PAGE 1 OF 1

PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
GROUND ELEVATION _____ **BORING DEPTH** 20 ft.
LATITUDE _____ **LONGITUDE** _____
DATE STARTED 11/9/16 **DATE COMPLETED** 11/9/16
DRILLING CONTRACTOR Penecore
DRILLING METHOD Geoprobe 6612DT
LOGGED BY RRB
NOTES _____
GROUND WATER LEVELS:
 AT TIME OF DRILLING Not Encountered
 AT END OF DRILLING Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		5 inches Portland cement concrete							
			Lean Clay (CL) stiff, moist, light gray				50	0.0	None	
	5						90	0.0	None	
	10		becomes sandy				100	0.0	None	
	15						100	0.0	None	
	20		Bottom of Boring at 20.0 feet.							



CORNERSTONE EARTH GROUP

Soil Vapor Well SV-1

PAGE 1 OF 1

DATE STARTED 11/10/16 DATE COMPLETED 11/10/16
 DRILLING CONTRACTOR Penecore
 DRILLING METHOD Geoprobe 6612DT
 LOGGED BY RRB
 PERMIT NUMBER _____ INSPECTOR _____

PROJECT NAME 914 West Grand Avenue
 PROJECT NUMBER 914-1-3
 PROJECT LOCATION Oakland, CA
 GROUND ELEVATION _____ BORING DEPTH 7 ft.
 BORING DIAMETER ft
 GROUND WATER LEVELS:
 ▽ AT TIME OF DRILLING Not Encountered
 ▼ AT END OF DRILLING Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	Sample Type Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Well Details
0	0		Lean Clay (CL) stiff, moist, light gray		1.3		
				100	2.0	None	
					3.8		
					1.1		
					0.7		
5	5		becomes sandy	100	0.1	None	
			Bottom of Boring at 7.0 feet.				
10							
15							
20							

CORNERSTONE GE WELL LOG - CORNERSTONE 0812_GDT - 11/28/16 15:07 - P:\DRAFTING\GINT FILES\914-1-3 914 W GRAND GE SV.GPJ

DATE STARTED 11/10/16 **DATE COMPLETED** 11/10/16
DRILLING CONTRACTOR Penecore
DRILLING METHOD Geoprobe 6612DT
LOGGED BY RRB
PERMIT NUMBER _____ **INSPECTOR** _____

PROJECT NAME 914 West Grand Avenue
PROJECT NUMBER 914-1-3
PROJECT LOCATION Oakland, CA
GROUND ELEVATION _____ **BORING DEPTH** 10 ft.
BORING DIAMETER ft
GROUND WATER LEVELS:
 ▽ **AT TIME OF DRILLING** Not Encountered
 ▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	Sample Type Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Well Details
0	0		3 inches asphalt concrete over 3 inches aggregate base				1/4" dia. Hi Purity Stainless Steel Tubing with Swagelok Cap Hydrated Bentonite slurry seal 0-8.5' 2.25 inch diameter borehole to 10' Dry Bentonite Seal 8.5-9' #3 Sand 4-5' with Porous Stainless Steel Tip @ 9.5'
			Lean Clay (CL)	100	0.1-0.3	None	
			Well-Graded Gravel with Clay and Sand (GW-GC) dense, moist, brown to red to gray	100	0.1-1.1	None	
	10		Bottom of Boring at 10.0 feet.				

PROJECT NAME 914 West Grand Avenue

PROJECT NUMBER 914-1-3

PROJECT LOCATION Oakland, CA

DATE STARTED 11/9/16 DATE COMPLETED 11/9/16

GROUND ELEVATION _____ BORING DEPTH 7 ft.

DRILLING CONTRACTOR Penecore

BORING DIAMETER ft

DRILLING METHOD Geoprobe 6612DT

GROUND WATER LEVELS:


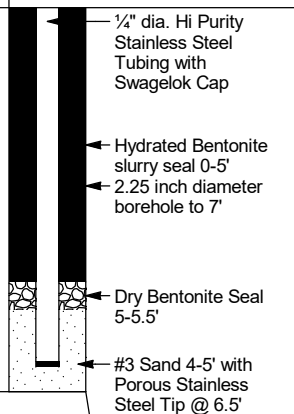



LOGGED BY BMJ

▽ AT TIME OF DRILLING Not Encountered

PERMIT NUMBER _____ INSPECTOR _____

▼ AT END OF DRILLING Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	Sample Type Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Well Details
	0		5 inches Portland cement concrete over 4 inches aggregate base				
			Fat Clay (CH) stiff, moist, dark gray	50	0.0	None	
	5		Lean Clay with Sand (CL) stiff, moist, light brown				
			Bottom of Boring at 7.0 feet.				



PROJECT NAME 914 West Grand Avenue

PROJECT NUMBER 914-1-3

PROJECT LOCATION Oakland, CA

DATE STARTED 11/9/16 DATE COMPLETED 11/9/16

GROUND ELEVATION _____ BORING DEPTH 7 ft.

DRILLING CONTRACTOR Penecore

BORING DIAMETER ft

DRILLING METHOD Geoprobe 6612DT

GROUND WATER LEVELS:

LOGGED BY BMJ

∇ AT TIME OF DRILLING Not Encountered

PERMIT NUMBER _____ INSPECTOR _____

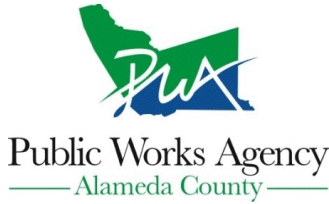
▼ AT END OF DRILLING Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	Sample Type Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Well Details
0	0		3 inches asphalt concrete over 3 inches aggregate base		0		
			Poorly Graded Sand (SP) moist, light brown, fine sand	50	0		
			Sandy Lean Clay (CL) light brown, fine sand	100	10.0	slight petroleum odor	
			Bottom of Boring at 7.0 feet.				

CORNERSTONE GE WELL LOG - CORNERSTONE 0812_GDT - 11/28/16 15:07 - P:\DRAFTING\GINT FILES\914-1-3 914 W GRAND GE SV.GPJ

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 11/04/2016 By jamesy

Permit Numbers: W2016-0786
Permits Valid from 11/09/2016 to 11/10/2016

Application Id: 1475772196097
Site Location: 914 West Grand Avenue

City of Project Site:Oakland

Project Start Date: 11/09/2016
Assigned Inspector: Contact Marcelino Vialpando at (510) 670-5760 or Marcelino@acpwa.org

Completion Date:11/10/2016

Applicant: Cornerstone Earth Group - Christopher Heiny
1270 Springbrook Road, Suite 101, Walnut Creek, CA 94597

Phone: 925-988-9500 x14

Property Owner: Sang Eui Hahn
212 Austin Lane, Alamo, CA 94507

Phone: --

Client: Turner Development Resource Group
4100 Redwood Road, Suite 170, Oakland, CA 94619

Phone: --

	Total Due:	\$265.00
Receipt Number: WR2016-0543	Total Amount Paid:	\$265.00
Payer Name : Cornerstone Earth Group	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 19 Boreholes
Driller: Penecore Drilling - Lic #: 906899 - Method: DP

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2016-0786	11/04/2016	02/07/2017	19	2.00 in.	10.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

Alameda County Public Works Agency - Water Resources Well Permit

5. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
 6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
 7. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.
 8. NOTE:
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.
 9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.
-

APPENDIX B – LABORATORY ANALYTICAL REPORTS



Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 283192
ANALYTICAL REPORT

Cornerstone Earth Group
1259 Oakmead Pkwy
Sunnyvale, CA 94085

Project : 914-1-3
Location : 914 W. Grand
Level : II

Table with 6 columns: Sample ID, Lab ID, Sample ID, Lab ID, Sample ID, Lab ID. It lists various sample and lab identifiers such as EB-1 (0-1), EB-2 (0-1), EB-3 (0-1), EB-4 (0-1), EB-5 (0-1), EB-9 (0-1), EB-9 (2-3), EB-9 (4.5-5), EB-9 (9.5-10), EB-9 (13-13.5), EB-8 (2-3), EB-8 (4-5), EB-8 (9-10), EB-8 (14-15), EB-13 (0-1), EB-13 (2-3), EB-13 (4-5), EB-13 (9-10), EB-13 (11-12), EB-13 (14-15), EB-9 (14.5-15), GW-1 (17.5-18), GW-1 (2-2.5), GW-3 (13-13.5), GW-2 (14.5-15), EB-6 (2-3), EB-6 (4-5), EB-6 (9-10), EB-6 (14-15), EB-17 (0-1), EB-17 (2-3), EB-17 (4-5), EB-14 (2-3), EB-14 (4-5), EB-14 (6-7), EB-14 (9-10), EB-14 (12-13), EB-14 (14-15), EB-17 (9-10), EB-17 (14-15), EB-7 (0-1), EB-7 (2-3), EB-7 (4-5), EB-7 (9-10), EB-7 (14-15), EB-6 (12-13).

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Handwritten signature of Will Rice

Signature: _____

Date: 12/05/2016

Will Rice
Project Manager
will.rice@ctberk.com

CASE NARRATIVE

Laboratory number: 283192
Client: Cornerstone Earth Group
Project: 914-1-3
Location: 914 W. Grand
Request Date: 11/09/16
Samples Received: 11/09/16

This data package contains sample and QC results for thirty six soil samples, requested for the above referenced project on 11/09/16. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

High recovery was observed for diesel C10-C24 in the MSD for batch 241334; the parent sample was not a project sample, the LCS was within limits, the associated RPD was within limits, and the high recovery was not associated with any reported results. A number of samples were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

Matrix spikes QC859905, QC859906 (batch 241214) were not reported because the parent sample was reanalyzed in another batch. Matrix spikes were not performed for this analysis in batch 241215 due to insufficient sample amount. EB-9 (13-13.5) (lab # 283192-024) and GW-3 (13-13.5) (lab # 283192-038) were diluted due to high hydrocarbons. EB-17 (0-1) (lab # 283192-044) was not diluted; the low sample weight is due to 5035 packaging. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

Matrix spikes QC860000, QC860001 (batch 241240) were not reported because the concentrations of target analytes in the parent sample were more than four times the amount spiked, rendering spike recoveries not meaningful. High surrogate recovery was observed for nitrobenzene-d5 in the LCS for batch 241240. High surrogate recovery was observed for terphenyl-d14 in the LCS for batch 241240. EB-2 (0-1) (lab # 283192-004), EB-3 (0-1) (lab # 283192-007), and EB-7 (0-1) (lab # 283192-055) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

Pesticides (EPA 8081A):

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. All samples underwent florisol cleanup using EPA Method 3620C. High responses were observed for aldrin, gamma-BHC, and endrin in the CCV analyzed 11/21/16 16:15; affected data was qualified with "b". A number of samples were diluted due to the color of the sample extracts. No other analytical problems were encountered.

CASE NARRATIVE

Laboratory number: 283192
Client: Cornerstone Earth Group
Project: 914-1-3
Location: 914 W. Grand
Request Date: 11/09/16
Samples Received: 11/09/16

PCBs (EPA 8082):

All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. Matrix spikes QC860612, QC860613 (batch 241391) were not reported because the parent sample required a dilution that would have diluted out the spikes. No other analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7470A):

No analytical problems were encountered.

283192



Chain of Custody Record

Cornerstone Earth Group, Inc. 1270 Springbrook RD #101 Walnut Creek, CA 94597 (925) 988-9500 Phone (925) 988-9501 FAX Project Name 914 W. Grand Site: Oakland Project Number: 914-1-3		Project Manager: Peter Langtry Tel/Fax:		Site Sampler: Randall/Brent Lab Contact: Will Rice		Date: Lab: Curtis and Tompkins		COC No: 1 of 6 COCs Laboratory's Job No.						
Analysis Turnaround Time TAT if different from Below _____ <input checked="" type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day														
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	CAM 17 Meats (60007000)	PAHs (8270 SIM)	OCPS (8081)	PCBs (8082)	TPHd/TPHo (8015M)	TPHg/VOCs (8260B)	Laboratory's Sample Specific Notes:	
1	EB-1 (0-1)	11/9/16	1350	LANDFILL	SOIL	1	X	X	X					
2	EB-1 (2-3)		1350				X			X				
3	EB-1 (4.5-5)		1352											Hold
4	EB-2 (0-1)		1402				X	X	X		X			
5	EB-2 (2-3)		1402				X			X				
6	EB-2 (4.5-5)		1402											Hold
7	EB-3 (0-1)		1247				X	X	X		X			
8	EB-3 (2-3)		1247				X			X				
9	EB-3 (4.5-5)		1247											Hold
10	EB-4 (0-1)		1151				X	X	X		X			
11	EB-4 (2-3)		1154				X			X				
12	EB-4 (4.5-5)		1151											Hold
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____														
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Special Instructions/QC Requirements & Comments: TPH D/TPH O WITHOUT SILICA GEL CLEAN UP Please send reports to Cheiny@cornerstoneearth.com, plangtry@cornerstoneearth.com, and rbleichner@cornerstoneearth.com														
Relinquished by:		Company: Cornerstone Earth Group		Date/Time: 11/9/16		Received by:		Company: CBT		Date/Time: 11/9/16				
Relinquished by:		Company: CBT		Date/Time: 11/9/16		Received by:		Company: CBT		Date/Time: 11/9/16 17:00				
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:				

283192



Chain of Custody Record

Project Manager: Peter Langtry		Site Sampler: Randall/Brent		Date:		COC No:						
Cornerstone Earth Group, Inc.		Tel/Fax:		Lab Contact: Will Rice		2 of 6 COCs						
1270 Springbrook RD #101		Analysis Turnaround Time				Laboratory's Job No.						
Walnut Creek, CA 94597		TAT if different from Below _____										
(925) 988-9500 Phone		<input type="checkbox"/> 1 week										
(925) 988-9501 FAX		<input type="checkbox"/> 3 days										
Project Name 914 W. Grand		<input type="checkbox"/> 2 days										
Site: Oakland		<input type="checkbox"/> 1 day										
Project Number: 914-1-3												
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	CAM 17 Metals (6000/7000)	PAHs (8270 SIM)	OCPS (8081)	PCBs (8082)	TPHd/TPHo (8015M)	TPHg/VOCs (8260B)	Laboratory's Sample Specific Notes:
13 EB-4 (6.5-7)	11/9/16	1155	Liquid	SOL	1							HOLD
14 EB-4 (14.5-15)		1235			1							HOLD
15 EB-4 (17.5-18)		1235			1							HOLD
16 EB-5 (0-1)		1123			1		XXX		X			
17 EB-5 (2-3)		1123			1		X		X			
18 EB-5 (4.5-5)		1123			1							HOLD
19 EB-5 (6.5-7)		1130			1							HOLD
20 EB-9 (0-1)		1520			1							HOLD
21 EB-9 (2-3)		1520			4				XX			
22 EB-9 (4.5-5)		1520			4				XX			
23 EB-9 (7.5-10)		1520			4				XX			
24 EB-9 (13-13.5)		1533			4	XX	XXXX					HOLD
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other												
Possible Hazard Identification						Sample Disposal						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Special Instructions/QC Requirements & Comments: TPH D/TPH O WITHOUT SILICA GEL CLEAN UP												
Please send reports to Cheiny@cornerstoneearth.com, plangtry@cornerstoneearth.com, and rbleichner@cornerstoneearth.com												
Relinquished by:	Company: Cornerstone Earth Group	Date/Time: 11/9/16	Received by:	Company: CBT	Date/Time: 11/9/16 1630							
Relinquished by:	Company: CBT	Date/Time: 11/9/16 1700	Received by:	Company: CBT	Date/Time: 11/9/16 17:50							
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:							

Cornerstone Earth Group, Inc. 1270 Springbrook RD #101 Walnut Creek, CA 94597 (925) 988-9500 Phone (925) 988-9501 FAX Project Name 914 W. Grand Site: Oakland Project Number: 914-1-3		Project Manager: Peter Langtry Tel/Fax:		Site Sampler: Randall/Brent Lab Contact: Will Rice		Date: Lab: Curtis and Tompkins		COC No: 3 of 2 COCs	
Analysis Turnaround Time		TAT if different from Below _____		CAM 17 Metals (60007000)		PAHs (8270 SIM)		OCPS (8081)	
<input type="checkbox"/> 1 week		<input type="checkbox"/> 3 days		PCBs (8082)		TPHd/TPHo (8015M)		TPHg/VOCs (8260B)	
<input type="checkbox"/> 2 days		<input type="checkbox"/> 1 day							
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.				
25 EB 8 (2-3)	11/9/16	13:50	ENV FLUID	SOIL	4			X	X
26 EB 8 (4-5)		13:43			4			X	X
27 EB 8 (9-10)		14:02			4			X	X
28 EB 8 (14-15)		14:12	LIT EB		4				
29 EB 13 (0-1)		14:29	LIT 2		4				
30 EB 13 (2-3)		14:30	LIT 3		4			X	X
31 EB 13 (4-5)		14:35			4			X	X
32 EB 13 (9-10)		14:31			4			X	X
33 EB 13 (11-12)		14:58			4				
34 EB 13 (14-15)		14:49			4				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Special Instructions/QC Requirements & Comments: TPH D/TPH O WITHOUT SILICA GEL CLEAN UP									
Please send reports to Cheiny@cornerstoneearth.com, plangtry@cornerstoneearth.com, and rbleichner@cornerstoneearth.com									
Relinquished by: [Signature]	Company: Cornerstone Earth Group	Date/Time: 11/9/16 16:30	Received by: [Signature]	Company: C&T	Date/Time: 11/9/16 16:30				
Relinquished by: [Signature]	Company: C&T	Date/Time: 11/9/16 17:00	Received by: [Signature]	Company: C&T	Date/Time: 11/9/16 17:00				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				

Chain of Custody Record

Project Manager: Peter Langtry		Site Sampler: Randall/Brent		Date:		COC No:						
Cornerstone Earth Group, Inc.		Tel/Fax:		Lab Contact: Will Rice		4 of 6 COCs						
1270 Springbrook RD #101		Analysis Turnaround Time				Laboratory's Job No.						
Walnut Creek, CA 94597		TAT if different from Below _____										
(925) 988-9500 Phone		<input checked="" type="checkbox"/> 1 week										
(925) 988-9501 FAX		<input type="checkbox"/> 3 days										
Project Name 914 W. Grand		<input type="checkbox"/> 2 days										
Site: Oakland		<input type="checkbox"/> 1 day										
Project Number: 914-1-3												
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	CAM 17 Metals (6000/7000)	PAHs (8270 SIM)	OCPS (8081)	PCBs (8082)	TPH/TPHo (8015M)	TPHg/VOCs (8260B)	Laboratory's Sample Specific Notes:
35 EB-01 (14.5-15)	11/9/16	1533	LIQ	Soil	1							HOLD
36 GW-1 (17.5-18)		1533			1							HOLD
37 GW-1 (2-2.5)		1232			1							HOLD
38 GW-3 (13-13.5)		1522			1					XX		
39 GW-2 (14.5-15)		1440			1							HOLD
40 EB-6 (2-3)		1553	LIQ		4					XX		
41 EB-6 (4-5)		1553			4					XX		
42 EB-6 (9-10)		1603			4					XX		
43 EB-6 (14-15)		16:09			4							HOLD
44 EB-17 (0-1)		1050			4					XXXXXX		
45 EB-17 (2-3)		1053			4					XX		
46 EB-17 (4-5)		1055			4					XX		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____												
Possible Hazard Identification						Sample Disposal						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Special Instructions/QC Requirements & Comments: TPH D/TPH O WITHOUT SILICA GEL CLEAN UP												
Please send reports to Cheiny@cornerstoneearth.com, plangtry@cornerstoneearth.com, and rbleichner@cornerstoneearth.com												
Relinquished by:	Company: Cornerstone Earth Group	Date/Time: 11/9/16	Received by:	Company: C&T	Date/Time: 11/9/16 1700							
Relinquished by:	Company: C&T	Date/Time: 11/9/16 1700	Received by:	Company: C&T	Date/Time: 11/9/16 1710							
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:							

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Cornerstone Earth Group, Inc. 1270 Springbrook RD #101 Walnut Creek, CA 94597 (925) 988-9500 Phone (925) 988-9501 FAX Project Name 914 W. Grand Site: Oakland Project Number: 914-1-3		Project Manager: Peter Langtry Tel/Fax:		Site Sampler: Randall/Brent Lab Contact: Will Rice		Date:		COC No: 5 of 6 COCs							
Analysis Turnaround Time TAT if different from Below _____ <input checked="" type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day								Laboratory's Job No.							
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	CAM 17 Meats (60007000)	PAHs (8270 SIM)	OCPS (8081)	PCBs (8082)	TPHd/TPHo (8015M)	TPHg/VOCs (8260B)	Laboratory's Sample Specific Notes:		
47	EB-14 (2-3)		15:10	LIVER	SAL	4									
48	14 (4-5)		15:17			4									
49	14 (6-7)		15:20			4	XXXX	X	X	X	X	X			
50	14 (9-10)		15:22			4					XX				
51	14 (12-13)		15:35			4								HOLD	
52	14 (14-15)		15:38	LIVER		1								HOLD	
53															
54	EB-17 (9-10)		11:05	LIVER		4					XX				
55	EB-17 (14-15)		11:00	LIVER		1								HOLD	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements & Comments: TPH D/TPH O WITHOUT SILICA GEL CLEAN UP		Please send reports to Cheiny@cornerstoneearth.com, plangtry@cornerstoneearth.com, and rbleichner@cornerstoneearth.com							
Relinquished by:		Company: Cornerstone Earth Group		Date/Time: 11/16/16		Received by:		Company: C&T		Date/Time: 11/19/16 1630					
Relinquished by:		Company: C&T		Date/Time: 11/19/16		Received by:		Company: C&T		Date/Time: 11/19/16 1700					
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:					

283192



Chain of Custody Record

Cornerstone Earth Group, Inc. 1270 Springbrook RD #101 Walnut Creek, CA 94597 (925) 988-9500 Phone (925) 988-9501 FAX Project Name 914 W. Grand Site: Oakland Project Number: 914-1-3		Project Manager: Peter Langtry Tel/Fax:		Site Sampler: Randall/Brent Lab Contact: Will Rice		Date: Lab: Curtis and Tompkins		COC No: 6 of 6 COCs Laboratory's Job No.					
Analysis Turnaround Time TAT if different from Below _____ <input checked="" type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day													
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	CAM 17 Metals (60007000)	PAHs (8270 SIM)	OCPS (8081)	PCBs (8082)	TPHd/TPHo (8015M)	TPHg/VOCs (8260B)	Laboratory's Sample Specific Notes:
56	EB-7 (0-1)	11/16	10:19	4 LIME	SOIL	4	X	X	X				
57	7 (2-3)		10:24			4					X	X	
58	7 (4-5)		10:29			4					X	X	
59	7 (9-10)		10:31			4					X	X	
60	7 (14-15)		10:37	4 LIME		4					X	X	HOLD
	EB-7 (0-1)		10:50			4	X	X	X				
	7 (2-3)		10:53										
	7 (4-5)		10:55										
	7 (9-10)		10:55										
	7 (14-15)		10:55										
61	EB-6 (12-13)		16:21	4 LIME	SOIL	4							HOLD
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other													
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Special Instructions/QC Requirements & Comments: TPH D/TPH O WITHOUT SILICA GEL CLEAN UP													
Please send reports to Cheiny@cornerstoneearth.com, plangtry@cornerstoneearth.com, and rbleichner@cornerstoneearth.com													
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:								
	Cornerstone Earth Group	11/16/16		CPT	11/9/16 11:30								
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:								
	CPT	11/9/16 17:00		CPT	11/9/16 17:00								
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:								

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 283192 Date Received 11/9/16 Number of coolers 2
 Client Cornerstone Project 914-1-3

Date Opened 11/9 By (print) CB (sign) Clumby
 Date Logged in ✓ By (print) DTN (sign) Clumby
 Date Labeled ✓ By (print) CB (sign) Clumby

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
 Shipping info _____

2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? _____ YES NO N/A

3. Were custody papers dry and intact when received? _____ YES NO

4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) _____ YES NO

6. Indicate the packing in cooler: (if other, describe) _____

- Bubble Wrap Foam blocks Bags None
- Cloth material Cardboard Styrofoam Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C) _____

Temperature blank(s) included? Thermometer# _____ IR Gun# _____

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO
 If YES, what time were they transferred to freezer? _____

9. Did all bottles arrive unbroken/unopened? _____ YES NO

10. Are there any missing / extra samples? _____ YES NO

11. Are samples in the appropriate containers for indicated tests? _____ YES NO

12. Are sample labels present, in good condition and complete? _____ YES NO

13. Do the sample labels agree with custody papers? _____ YES NO

14. Was sufficient amount of sample sent for tests requested? _____ YES NO

15. Are the samples appropriately preserved? _____ YES NO N/A

16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A

17. Did you document your preservative check? (pH strip lot# _____) YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A

21. Was the client contacted concerning this sample delivery? _____ YES NO
 If YES, Who was called? _____ By _____ Date: _____

COMMENTS

Client Sample ID : EB-3 (0-1)

Laboratory Sample ID :

283192-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	50	Y	5.0		mg/Kg	As Recd	5.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	650		25		mg/Kg	As Recd	5.000	EPA 8015B	EPA 3550B
Naphthalene	18		15	3.0	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B
Acenaphthylene	23		15	3.0	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B
Fluorene	4.8	J	15	3.0	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B
Phenanthrene	200		15	3.0	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B
Anthracene	27		15	3.0	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B
Fluoranthene	450		15	3.0	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B
Pyrene	530		15	3.0	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B
Benzo(a)anthracene	160		15	3.0	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B
Chrysene	180		15	3.0	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B
Benzo(b)fluoranthene	250		15	3.0	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B
Benzo(k)fluoranthene	69		15	3.0	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B
Benzo(a)pyrene	240		15	3.0	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B
Indeno(1,2,3-cd)pyrene	120		15	3.1	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B
Dibenz(a,h)anthracene	22		15	3.0	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B
Benzo(g,h,i)perylene	130		15	3.7	ug/Kg	As Recd	3.000	EPA 8270C-SIM	EPA 3550B

Client Sample ID : EB-3 (2-3)

Laboratory Sample ID :

283192-008

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1.6	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	10		5.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B

Client Sample ID : EB-4 (0-1)

Laboratory Sample ID :

283192-010

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	3.9	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	19		5.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Acenaphthylene	1.0	J	5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Phenanthrene	3.9	J	5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Anthracene	1.2	J	5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Fluoranthene	8.0		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Pyrene	8.9		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Benzo(a)anthracene	5.9		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Chrysene	6.1		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Benzo(b)fluoranthene	8.6		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Benzo(k)fluoranthene	2.2	J	5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Benzo(a)pyrene	6.8		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Indeno(1,2,3-cd)pyrene	3.0	J	5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Dibenz(a,h)anthracene	1.1	J	5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Benzo(g,h,i)perylene	3.2	J	5.0	1.2	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B

Client Sample ID : EB-4 (2-3)

Laboratory Sample ID :

283192-011

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1.0	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B

Client Sample ID : EB-5 (0-1)

Laboratory Sample ID :

283192-016

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	4.8	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	8.1		5.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
gamma-Chlordane	0.25	J	0.86	0.18	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B

Client Sample ID : EB-5 (2-3)

Laboratory Sample ID :

283192-017

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1.7	Y	0.99		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B

Client Sample ID : EB-9 (2-3)

Laboratory Sample ID :

283192-021

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1.4	Y	0.99		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	6.1		5.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B

Client Sample ID : EB-9 (4.5-5)

Laboratory Sample ID :

283192-022

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Motor Oil C24-C36	5.6		5.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B

Client Sample ID : EB-9 (9.5-10)

Laboratory Sample ID :

283192-023

No Detections

Client Sample ID : EB-9 (13-13.5)

Laboratory Sample ID : 283192-024

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	10		5.0		mg/Kg	As Recd	25.00	EPA 8015B	EPA 5035
Diesel C10-C24	290	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Diesel C10-C24	270	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	6.0	Y	5.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Isopropylbenzene	8,900		5,000		ug/Kg	As Recd	1000	EPA 8260B	EPA 5035
Propylbenzene	50,000		5,000		ug/Kg	As Recd	1000	EPA 8260B	EPA 5035
sec-Butylbenzene	7,000		5,000		ug/Kg	As Recd	1000	EPA 8260B	EPA 5035
n-Butylbenzene	28,000		5,000		ug/Kg	As Recd	1000	EPA 8260B	EPA 5035
Naphthalene	13,000		5,000		ug/Kg	As Recd	1000	EPA 8260B	EPA 5035
Naphthalene	16		5.0	0.99	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Fluorene	1.8	J	5.0	0.99	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Phenanthrene	6.7		5.0	0.99	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Pyrene	1.5	J	5.0	0.99	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B

Client Sample ID : EB-8 (2-3)

Laboratory Sample ID : 283192-025

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1.3	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	18		5.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Acetone	23		19		ug/Kg	As Recd	0.9634	EPA 8260B	EPA 5035

Client Sample ID : EB-8 (4-5)

Laboratory Sample ID : 283192-026

No Detections

Client Sample ID : EB-8 (9-10)

Laboratory Sample ID : 283192-027

No Detections

Client Sample ID : EB-13 (2-3)

Laboratory Sample ID : 283192-030

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	2.7	Y	0.99		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	19		5.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B

Client Sample ID : EB-13 (4-5)

Laboratory Sample ID : 283192-031

No Detections

Client Sample ID : EB-13 (9-10)

Laboratory Sample ID : 283192-032

No Detections

Client Sample ID : GW-3 (13-13.5)

Laboratory Sample ID :

283192-038

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	490	Y	40		mg/Kg	As Recd	200.0	EPA 8015B	EPA 5035
Diesel C10-C24	110	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Isopropylbenzene	3,800		2,500		ug/Kg	As Recd	500.0	EPA 8260B	EPA 5035
Propylbenzene	20,000		2,500		ug/Kg	As Recd	500.0	EPA 8260B	EPA 5035
sec-Butylbenzene	2,700		2,500		ug/Kg	As Recd	500.0	EPA 8260B	EPA 5035
n-Butylbenzene	11,000		2,500		ug/Kg	As Recd	500.0	EPA 8260B	EPA 5035
Naphthalene	7,200		2,500		ug/Kg	As Recd	500.0	EPA 8260B	EPA 5035

Client Sample ID : EB-6 (2-3)

Laboratory Sample ID :

283192-040

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1.3	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	5.0		5.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B

Client Sample ID : EB-6 (4-5)

Laboratory Sample ID :

283192-041

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	37	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	120		5.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B

Client Sample ID : EB-6 (9-10)

Laboratory Sample ID :

283192-042

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	7.2	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 5035
Diesel C10-C24	57	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	110		5.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
2-Hexanone	8.7		8.3		ug/Kg	As Recd	0.8264	EPA 8260B	EPA 5035
sec-Butylbenzene	6.7		4.1		ug/Kg	As Recd	0.8264	EPA 8260B	EPA 5035

Client Sample ID : EB-17 (0-1)

Laboratory Sample ID :

283192-044

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	10	Y	0.99		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	45		5.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Pyrene	1.0	J	4.9	0.98	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Benzo(b)fluoranthene	1.2	J	4.9	0.98	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Aroclor-1254	27		4.8		ug/Kg	As Recd	1.000	EPA 8082	EPA 3550B
Aroclor-1260	16		4.8		ug/Kg	As Recd	1.000	EPA 8082	EPA 3550B

Client Sample ID : EB-17 (2-3)

Laboratory Sample ID :

283192-045

No Detections

Client Sample ID : EB-17 (4-5) Laboratory Sample ID : 283192-046

No Detections

Client Sample ID : EB-14 (2-3) Laboratory Sample ID : 283192-047

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Motor Oil C24-C36	84		25		mg/Kg	As Recd	5.000	EPA 8015B	EPA 3550B

Client Sample ID : EB-14 (4-5) Laboratory Sample ID : 283192-048

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1.0	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	5.0		5.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B

Client Sample ID : EB-14 (6-7) Laboratory Sample ID : 283192-049

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	13	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	41		5.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Aroclor-1254	12		4.8		ug/Kg	As Recd	1.000	EPA 8082	EPA 3550B

Client Sample ID : EB-14 (9-10) Laboratory Sample ID : 283192-050

No Detections

Client Sample ID : EB-17 (9-10) Laboratory Sample ID : 283192-053

No Detections

Client Sample ID : EB-7 (0-1) Laboratory Sample ID : 283192-055

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	180	Y	10		mg/Kg	As Recd	10.00	EPA 8015B	EPA 3550B
Motor Oil C24-C36	1,200		50		mg/Kg	As Recd	10.00	EPA 8015B	EPA 3550B
Pyrene	5.5	J	25	5.0	ug/Kg	As Recd	5.000	EPA 8270C-SIM	EPA 3550B
Benzo(g,h,i)perylene	15	J	25	5.0	ug/Kg	As Recd	5.000	EPA 8270C-SIM	EPA 3550B
Aroclor-1254	150		4.7		ug/Kg	As Recd	1.000	EPA 8082	EPA 3550B
Aroclor-1260	17		4.7		ug/Kg	As Recd	1.000	EPA 8082	EPA 3550B

Client Sample ID : EB-7 (2-3) Laboratory Sample ID : 283192-056

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	32		19		ug/Kg	As Recd	0.9452	EPA 8260B	EPA 5035

Client Sample ID : EB-7 (4-5)

Laboratory Sample ID :

283192-057

No Detections

Client Sample ID : EB-7 (9-10)

Laboratory Sample ID :

283192-058

No Detections

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Analysis:	EPA 8015B
Project#:	914-1-3		
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-9 (2-3)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-021	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.98

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	78-138

Field ID:	EB-9 (4.5-5)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-022	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	78-138

Field ID:	EB-9 (9.5-10)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-023	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.96

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	78-138

Field ID:	EB-9 (13-13.5)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/12/16
Lab ID:	283192-024	Prep:	EPA 5035
Diln Fac:	25.00		

Analyte	Result	RL
Gasoline C7-C12	10	5.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	78-138

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Analysis:	EPA 8015B
Project#:	914-1-3		
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-8 (2-3)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-025	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.98

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	78-138

Field ID:	EB-8 (4-5)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-026	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	78-138

Field ID:	EB-8 (9-10)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-027	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.93

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	78-138

Field ID:	EB-13 (2-3)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-030	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.95

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	78-138

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Analysis:	EPA 8015B
Project#:	914-1-3		
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-13 (4-5)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-031	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	78-138

Field ID:	EB-13 (9-10)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-032	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	78-138

Field ID:	GW-3 (13-13.5)	Batch#:	241341
Type:	SAMPLE	Analyzed:	11/15/16
Lab ID:	283192-038	Prep:	EPA 5035
Diln Fac:	200.0		

Analyte	Result	RL
Gasoline C7-C12	490 Y	40

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	128	78-138

Field ID:	EB-6 (2-3)	Batch#:	241276
Type:	SAMPLE	Analyzed:	11/12/16
Lab ID:	283192-040	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.96

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	78-138

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Analysis:	EPA 8015B
Project#:	914-1-3		
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-6 (4-5)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-041	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	78-138

Field ID:	EB-6 (9-10)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-042	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	7.2 Y	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	115	78-138

Field ID:	EB-17 (0-1)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-044	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.92

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	78-138

Field ID:	EB-17 (2-3)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/12/16
Lab ID:	283192-045	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	78-138

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Analysis:	EPA 8015B
Project#:	914-1-3		
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-17 (4-5)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/12/16
Lab ID:	283192-046	Prep:	EPA 5030B
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	78-138

Field ID:	EB-14 (2-3)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/12/16
Lab ID:	283192-047	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	78-138

Field ID:	EB-14 (4-5)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/12/16
Lab ID:	283192-048	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	78-138

Field ID:	EB-14 (6-7)	Batch#:	241286
Type:	SAMPLE	Analyzed:	11/12/16
Lab ID:	283192-049	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.93

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	78-138

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Analysis:	EPA 8015B
Project#:	914-1-3		
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-14 (9-10)	Batch#:	241276
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-050	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	90	78-138

Field ID:	EB-17 (9-10)	Batch#:	241276
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-053	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	87	78-138

Field ID:	EB-7 (2-3)	Batch#:	241276
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-056	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.98

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	85	78-138

Field ID:	EB-7 (4-5)	Batch#:	241276
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-057	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.93

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	78-138

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Analysis:	EPA 8015B
Project#:	914-1-3		
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-7 (9-10)	Batch#:	241276
Type:	SAMPLE	Analyzed:	11/11/16
Lab ID:	283192-058	Prep:	EPA 5035
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.95

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	86	78-138

Type:	BLANK	Batch#:	241276
Lab ID:	QC860149	Analyzed:	11/11/16
Diln Fac:	1.000	Prep:	EPA 5035

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	83	78-138

Type:	BLANK	Batch#:	241286
Lab ID:	QC860197	Analyzed:	11/11/16
Diln Fac:	1.000	Prep:	EPA 5035

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	78-138

Type:	BLANK	Batch#:	241341
Lab ID:	QC860408	Analyzed:	11/14/16
Diln Fac:	1.000	Prep:	EPA 5035

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	78-138

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860146	Batch#:	241276
Matrix:	Soil	Analyzed:	11/11/16
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.105	110	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	90	78-138

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	EB-6 (2-3)	Diln Fac:	1.000
MSS Lab ID:	283192-040	Batch#:	241276
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/12/16

Type: MS Lab ID: QC860147

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1105	9.524	7.904	82	50-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	78-138

Type: MSD Lab ID: QC860148

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.901	9.248	92	50-120	12	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	78-138

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860192	Batch#:	241286
Matrix:	Soil	Analyzed:	11/11/16
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9956	100	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	78-138

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	283251-001	Batch#:	241286
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/12/16

Type: MS Lab ID: QC860195

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.6682	10.64	8.458	73	50-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	78-138

Type: MSD Lab ID: QC860196

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.20	7.793	70	50-120	4	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	78-138

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860403	Batch#:	241341
Matrix:	Soil	Analyzed:	11/14/16
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.111	111	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	78-138

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	283261-001	Batch#:	241341
Matrix:	Soil	Sampled:	11/11/16
Units:	mg/Kg	Received:	11/11/16
Basis:	as received	Analyzed:	11/14/16

Type: MS Lab ID: QC860406

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.4805	9.709	9.142	89	50-120

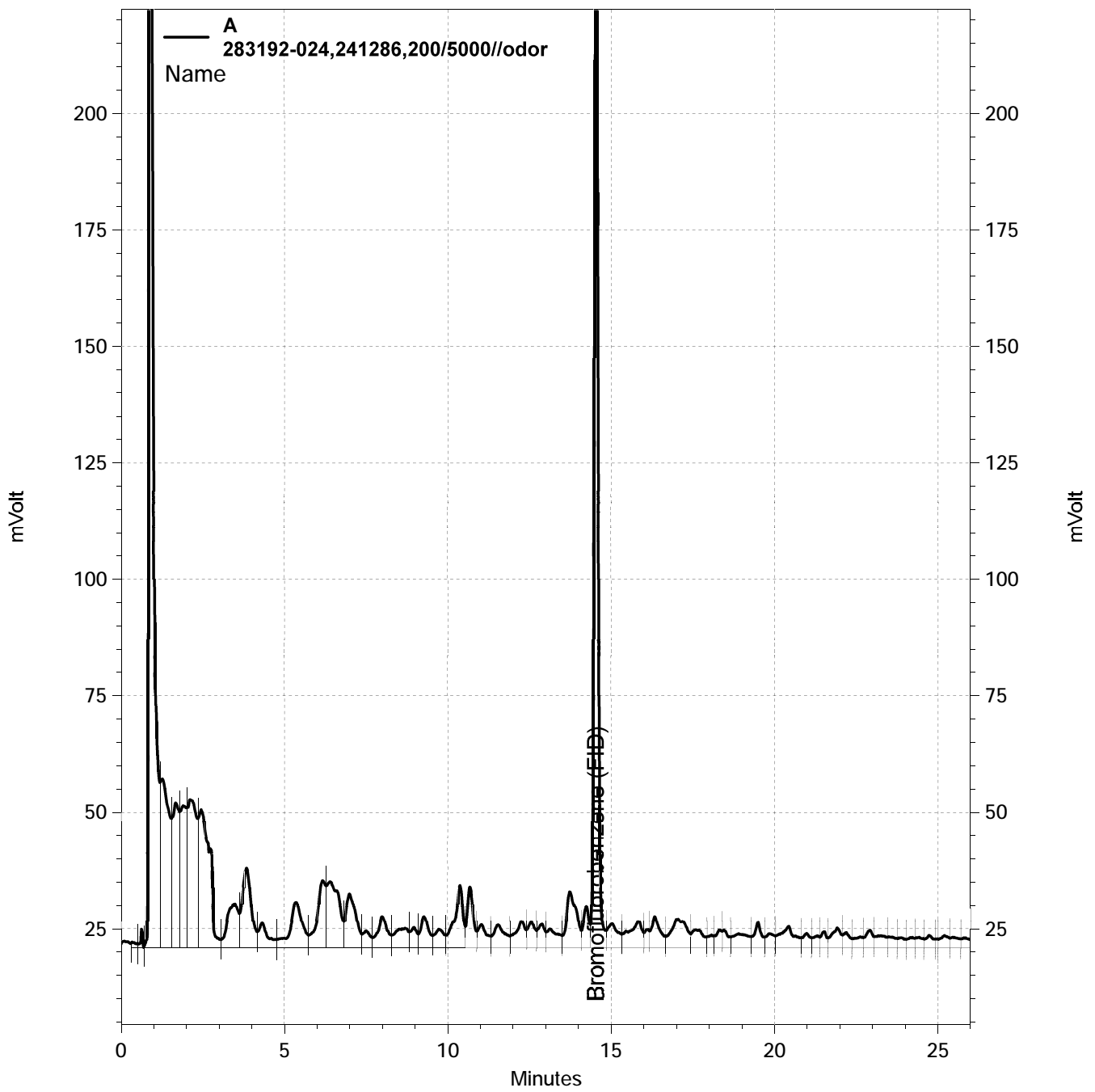
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	78-138

Type: MSD Lab ID: QC860407

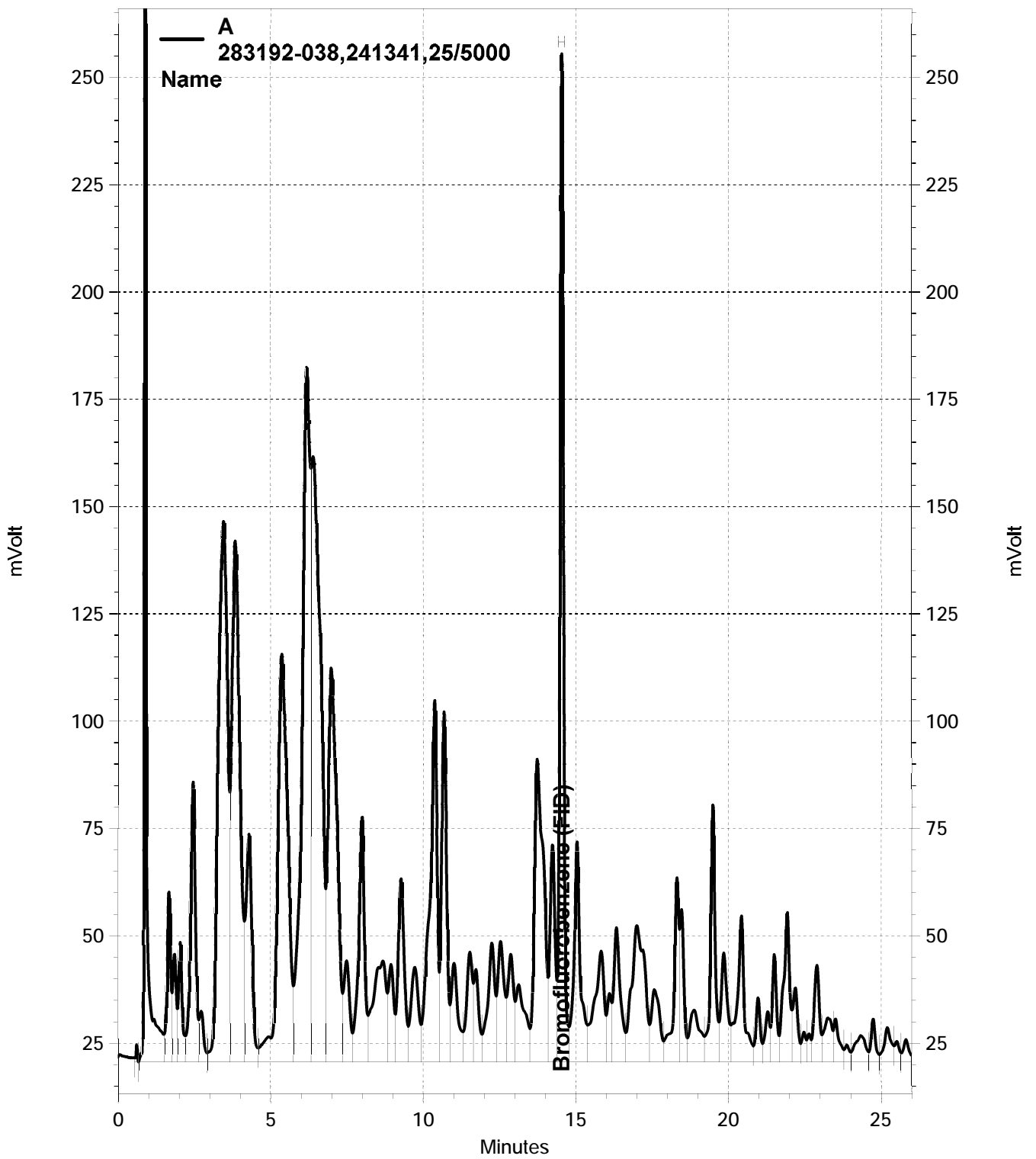
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.10	8.388	78	50-120	12	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	78-138

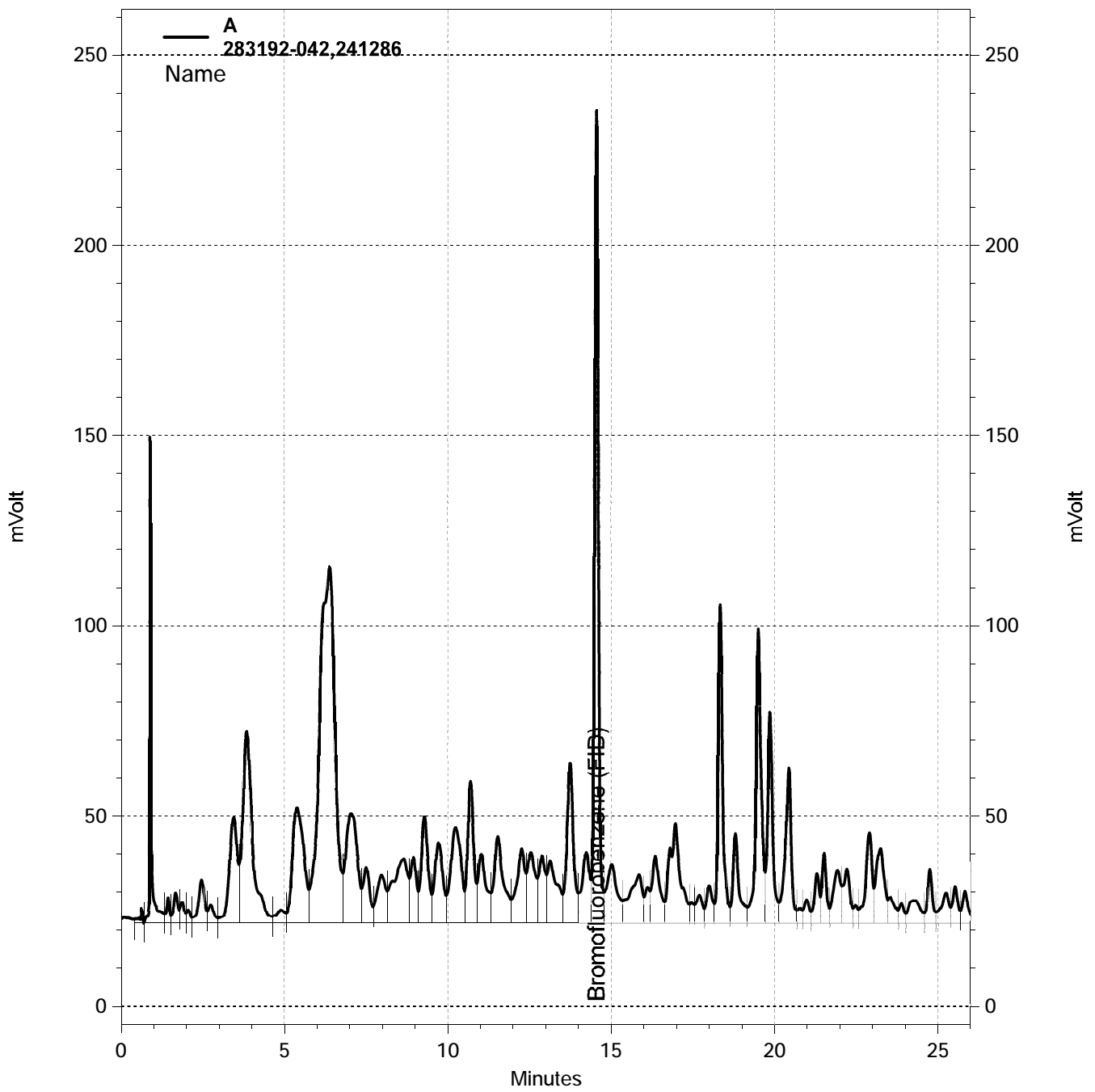
RPD= Relative Percent Difference



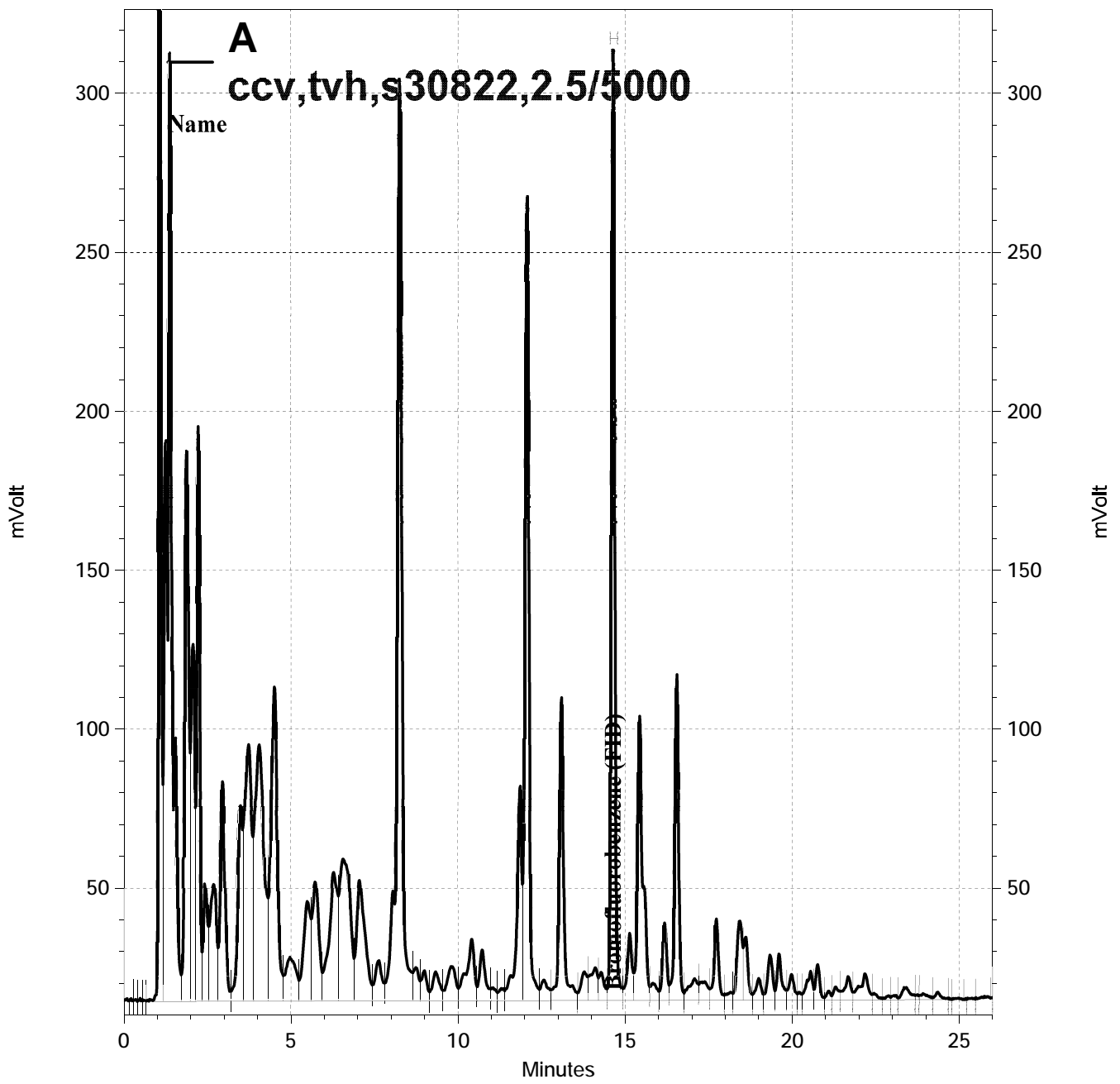
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— \\Lims\gdrive\ezchrom\Projects\GC19\Data\319-032, A



— \\Lims\gdrive\ezchrom\Projects\GC19\Data\316-021, A



— \\Lims\gdrive\ezchrom\Projects\GC04\Data\316-001, A

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-1 (0-1)	Batch#:	241334
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-001	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	1.7 Y	0.99
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	5.9	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	89	59-140

Field ID:	EB-1 (2-3)	Batch#:	241334
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-002	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	1.5 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	101	59-140

Field ID:	EB-2 (0-1)	Batch#:	241334
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-004	Analyzed:	11/18/16
Diln Fac:	20.00		

Analyte	Result	RL
Diesel C10-C24	45 Y	20
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	430	100
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	DO	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-2 (2-3)	Batch#:	241334
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-005	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	2.4 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	5.8	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	102	59-140

Field ID:	EB-3 (0-1)	Batch#:	241334
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-007	Analyzed:	11/18/16
Diln Fac:	5.000		

Analyte	Result	RL
Diesel C10-C24	50 Y	5.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	650	25
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	107	59-140

Field ID:	EB-3 (2-3)	Batch#:	241334
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-008	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	1.6 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	10	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	103	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-4 (0-1)	Batch#:	241334
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-010	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	3.9 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	19	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	87	59-140

Field ID:	EB-4 (2-3)	Batch#:	241334
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-011	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	1.0 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	101	59-140

Field ID:	EB-5 (0-1)	Batch#:	241334
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-016	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	4.8 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	8.1	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	104	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-5 (2-3)	Batch#:	241334
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-017	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	1.7 Y	0.99
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	96	59-140

Field ID:	EB-9 (2-3)	Batch#:	241371
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-021	Analyzed:	11/17/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	1.4 Y	0.99
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	6.1	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	103	59-140

Field ID:	EB-9 (4.5-5)	Batch#:	241371
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-022	Analyzed:	11/17/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	5.6	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	101	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID: EB-9 (9.5-10) Batch#: 241371
 Type: SAMPLE Prepared: 11/14/16
 Lab ID: 283192-023 Analyzed: 11/17/16
 Diln Fac: 1.000

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	92	59-140

Field ID: EB-9 (13-13.5) Batch#: 241371
 Type: SAMPLE Prepared: 11/14/16
 Lab ID: 283192-024 Cleanup Method: EPA 3630C
 Diln Fac: 1.000

Analyte	Result	RL	Analyzed
Diesel C10-C24	290 Y	1.0	11/17/16
Diesel C10-C24 (SGCU)	270 Y	1.0	12/01/16
Motor Oil C24-C36	ND	5.0	11/17/16
Motor Oil C24-C36 (SGCU)	6.0 Y	5.0	12/01/16

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	107	59-140	11/17/16
o-Terphenyl (SGCU)	109	59-140	12/01/16

Field ID: EB-8 (2-3) Batch#: 241371
 Type: SAMPLE Prepared: 11/14/16
 Lab ID: 283192-025 Analyzed: 11/17/16
 Diln Fac: 1.000

Analyte	Result	RL
Diesel C10-C24	1.3 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	18	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	101	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-8 (4-5)	Batch#:	241371
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-026	Analyzed:	11/17/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	92	59-140

Field ID:	EB-8 (9-10)	Batch#:	241429
Type:	SAMPLE	Prepared:	11/15/16
Lab ID:	283192-027	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	92	59-140

Field ID:	EB-13 (2-3)	Batch#:	241371
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-030	Analyzed:	11/17/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	2.7 Y	0.99
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	19	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	106	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-13 (4-5)	Batch#:	241371
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-031	Analyzed:	11/17/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	106	59-140

Field ID:	EB-13 (9-10)	Batch#:	241371
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-032	Analyzed:	11/17/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	100	59-140

Field ID:	GW-3 (13-13.5)	Batch#:	241371
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-038	Analyzed:	11/17/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	110 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	111	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-6 (2-3)	Batch#:	241371
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-040	Analyzed:	11/19/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	1.3 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	5.0	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	112	59-140

Field ID:	EB-6 (4-5)	Batch#:	241371
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-041	Analyzed:	11/19/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	37 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	120	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	118	59-140

Field ID:	EB-6 (9-10)	Batch#:	241371
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-042	Analyzed:	11/19/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	57 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	110	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	119	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-17 (0-1)	Batch#:	241429
Type:	SAMPLE	Prepared:	11/15/16
Lab ID:	283192-044	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	10 Y	0.99
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	45	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	107	59-140

Field ID:	EB-17 (2-3)	Batch#:	241371
Type:	SAMPLE	Prepared:	11/14/16
Lab ID:	283192-045	Analyzed:	11/20/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	119	59-140

Field ID:	EB-17 (4-5)	Batch#:	241429
Type:	SAMPLE	Prepared:	11/15/16
Lab ID:	283192-046	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	104	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-14 (2-3)	Batch#:	241469
Type:	SAMPLE	Prepared:	11/16/16
Lab ID:	283192-047	Analyzed:	11/19/16
Diln Fac:	5.000		

Analyte	Result	RL
Diesel C10-C24	ND	5.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	84	25
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	91	59-140

Field ID:	EB-14 (4-5)	Batch#:	241469
Type:	SAMPLE	Prepared:	11/16/16
Lab ID:	283192-048	Analyzed:	11/19/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	1.0 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	5.0	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	101	59-140

Field ID:	EB-14 (6-7)	Batch#:	241469
Type:	SAMPLE	Prepared:	11/16/16
Lab ID:	283192-049	Analyzed:	11/19/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	13 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	41	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	83	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-14 (9-10)	Batch#:	241429
Type:	SAMPLE	Prepared:	11/15/16
Lab ID:	283192-050	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	101	59-140

Field ID:	EB-17 (9-10)	Batch#:	241429
Type:	SAMPLE	Prepared:	11/15/16
Lab ID:	283192-053	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	94	59-140

Field ID:	EB-7 (0-1)	Batch#:	241429
Type:	SAMPLE	Prepared:	11/15/16
Lab ID:	283192-055	Analyzed:	11/18/16
Diln Fac:	10.00		

Analyte	Result	RL
Diesel C10-C24	180 Y	10
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	1,200	50
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	DO	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Field ID:	EB-7 (2-3)	Batch#:	241429
Type:	SAMPLE	Prepared:	11/15/16
Lab ID:	283192-056	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	108	59-140

Field ID:	EB-7 (4-5)	Batch#:	241429
Type:	SAMPLE	Prepared:	11/15/16
Lab ID:	283192-057	Analyzed:	11/19/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	106	59-140

Field ID:	EB-7 (9-10)	Batch#:	241429
Type:	SAMPLE	Prepared:	11/15/16
Lab ID:	283192-058	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	108	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Type:	BLANK	Batch#:	241334
Lab ID:	QC860448	Prepared:	11/14/16
Diln Fac:	1.000	Analyzed:	11/14/16

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	105	59-140

Type:	BLANK	Batch#:	241371
Lab ID:	QC860529	Prepared:	11/14/16
Diln Fac:	1.000	Cleanup Method:	EPA 3630C

Analyte	Result	RL	Analyzed
Diesel C10-C24	ND	1.0	11/15/16
Diesel C10-C24 (SGCU)	ND	1.0	12/02/16
Motor Oil C24-C36	ND	5.0	11/15/16
Motor Oil C24-C36 (SGCU)	ND	5.0	12/02/16

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	114	59-140	11/15/16
o-Terphenyl (SGCU)	93	59-140	12/02/16

Type:	BLANK	Batch#:	241429
Lab ID:	QC860756	Prepared:	11/15/16
Diln Fac:	1.000	Analyzed:	11/16/16

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	102	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received		

Type:	BLANK	Batch#:	241469
Lab ID:	QC860909	Prepared:	11/16/16
Diln Fac:	1.000	Analyzed:	11/18/16

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	113	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860449	Batch#:	241334
Matrix:	Soil	Prepared:	11/14/16
Units:	mg/Kg	Analyzed:	11/14/16

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24		NA		
Diesel C10-C24 (SGCU)	49.73	33.90	68	58-137

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	73	59-140

NA= Not Analyzed
 SGCU= Silica gel cleanup

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860530	Batch#:	241371
Matrix:	Soil	Prepared:	11/14/16
Units:	mg/Kg		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	Analyzed
Diesel C10-C24	50.18	51.73	103	58-137	11/15/16
Diesel C10-C24 (SGCU)	50.18	42.87	85	58-137	12/02/16

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	108	59-140	11/15/16
o-Terphenyl (SGCU)	82	59-140	12/02/16

SGCU= Silica gel cleanup

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860757	Batch#:	241429
Matrix:	Soil	Prepared:	11/15/16
Units:	mg/Kg	Analyzed:	11/16/16

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.70	68.29	137	58-137
Diesel C10-C24 (SGCU)		NA		

Surrogate	%REC	Limits
o-Terphenyl	117	59-140

NA= Not Analyzed
 SGCU= Silica gel cleanup

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	241429
MSS Lab ID:	283251-001	Sampled:	11/09/16
Matrix:	Soil	Received:	11/10/16
Units:	mg/Kg	Prepared:	11/15/16
Basis:	as received	Analyzed:	11/16/16
Diln Fac:	5.000		

Type: MS Lab ID: QC860758

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	14.81	50.00	67.57	106	46-154
Diesel C10-C24 (SGCU)			NA		

Surrogate	%REC	Limits
o-Terphenyl	98	59-140

Type: MSD Lab ID: QC860759

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.45	76.09	121	46-154	11	50
Diesel C10-C24 (SGCU)		NA				

Surrogate	%REC	Limits
o-Terphenyl	110	59-140

NA= Not Analyzed
 RPD= Relative Percent Difference
 SGCU= Silica gel cleanup

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860910	Batch#:	241469
Matrix:	Soil	Prepared:	11/16/16
Units:	mg/Kg	Analyzed:	11/18/16

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.85	66.59	134	58-137
Diesel C10-C24 (SGCU)		NA		

Surrogate	%REC	Limits
o-Terphenyl	130	59-140

NA= Not Analyzed
 SGCU= Silica gel cleanup

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	241469
MSS Lab ID:	283390-001	Sampled:	11/14/16
Matrix:	Soil	Received:	11/14/16
Units:	mg/Kg	Prepared:	11/16/16
Basis:	as received	Analyzed:	11/19/16
Diln Fac:	3.000		

Type: MS Lab ID: QC860911

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	20.78	50.26	86.37	130	46-154
Diesel C10-C24 (SGCU)			NA		

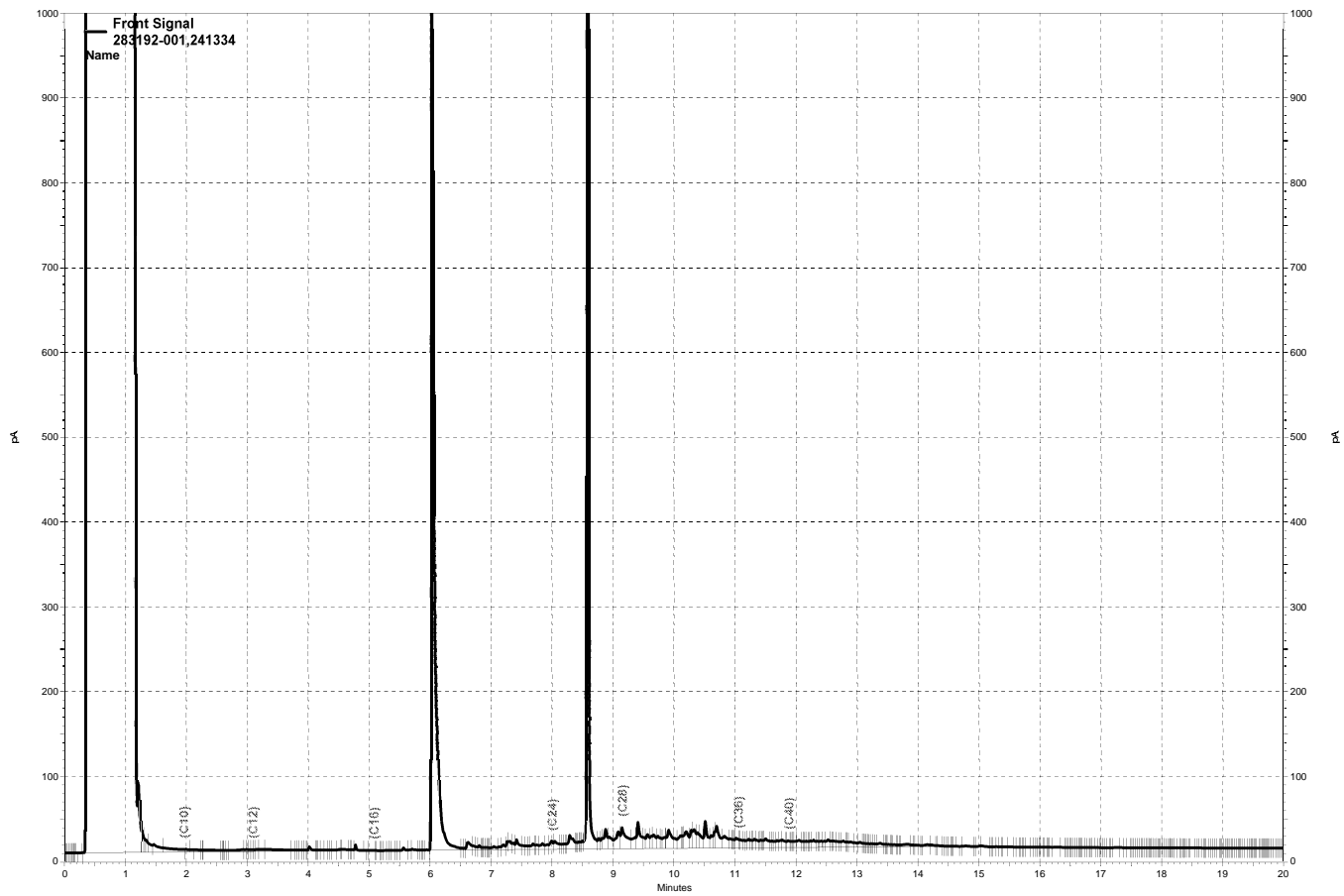
Surrogate	%REC	Limits
o-Terphenyl	109	59-140

Type: MSD Lab ID: QC860912

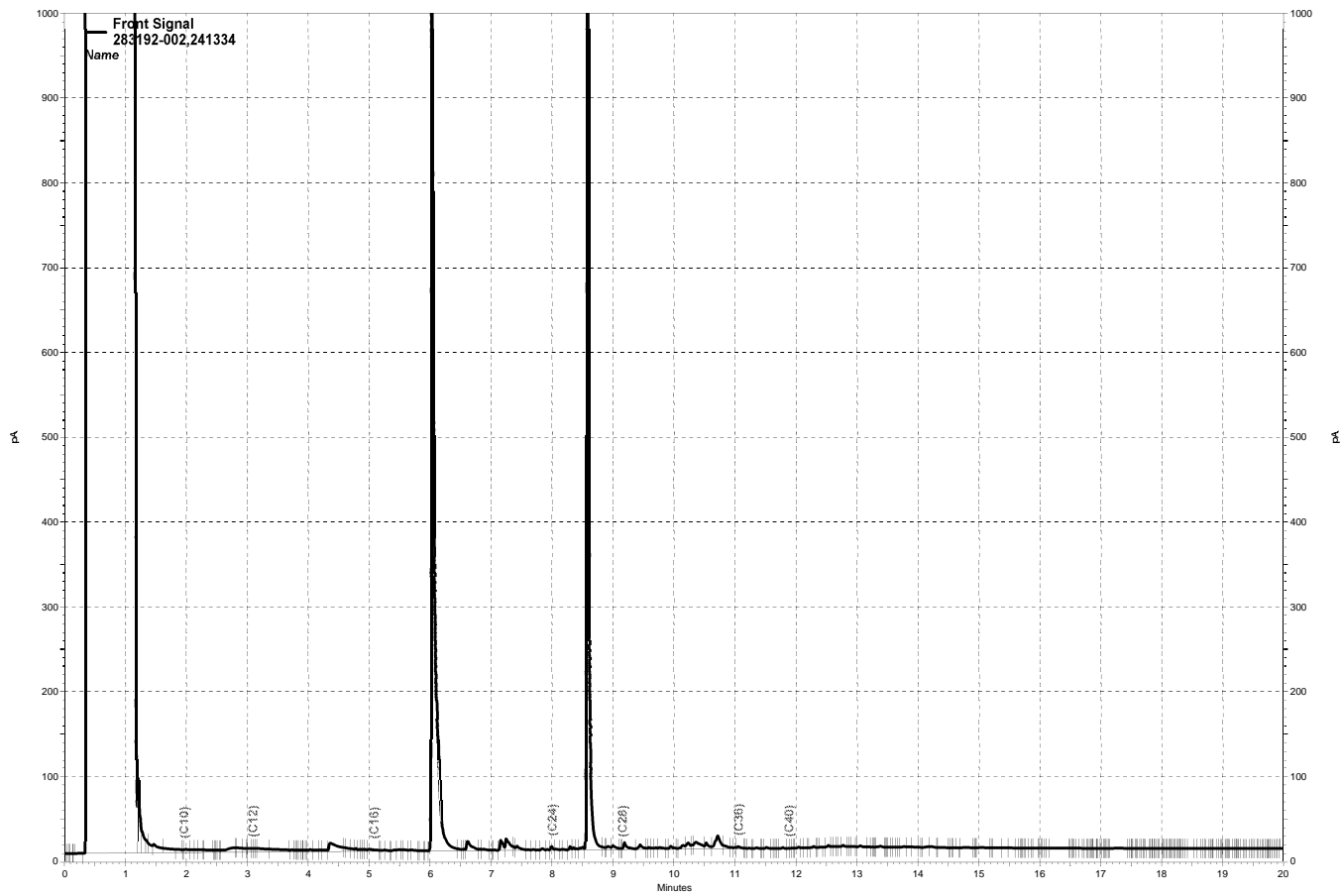
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.12	90.44	139	46-154	5	50
Diesel C10-C24 (SGCU)		NA				

Surrogate	%REC	Limits
o-Terphenyl	109	59-140

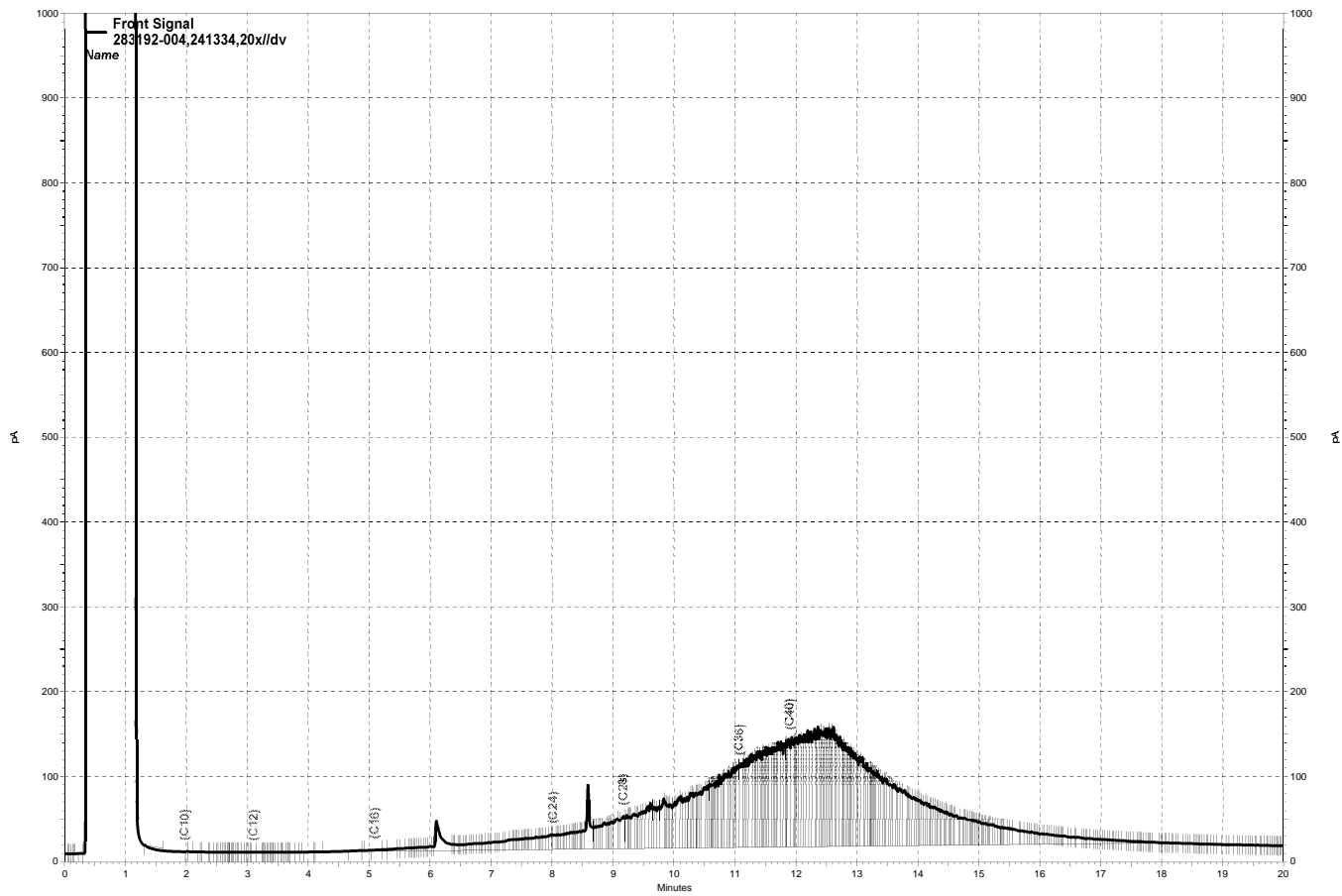
NA= Not Analyzed
 RPD= Relative Percent Difference
 SGCU= Silica gel cleanup



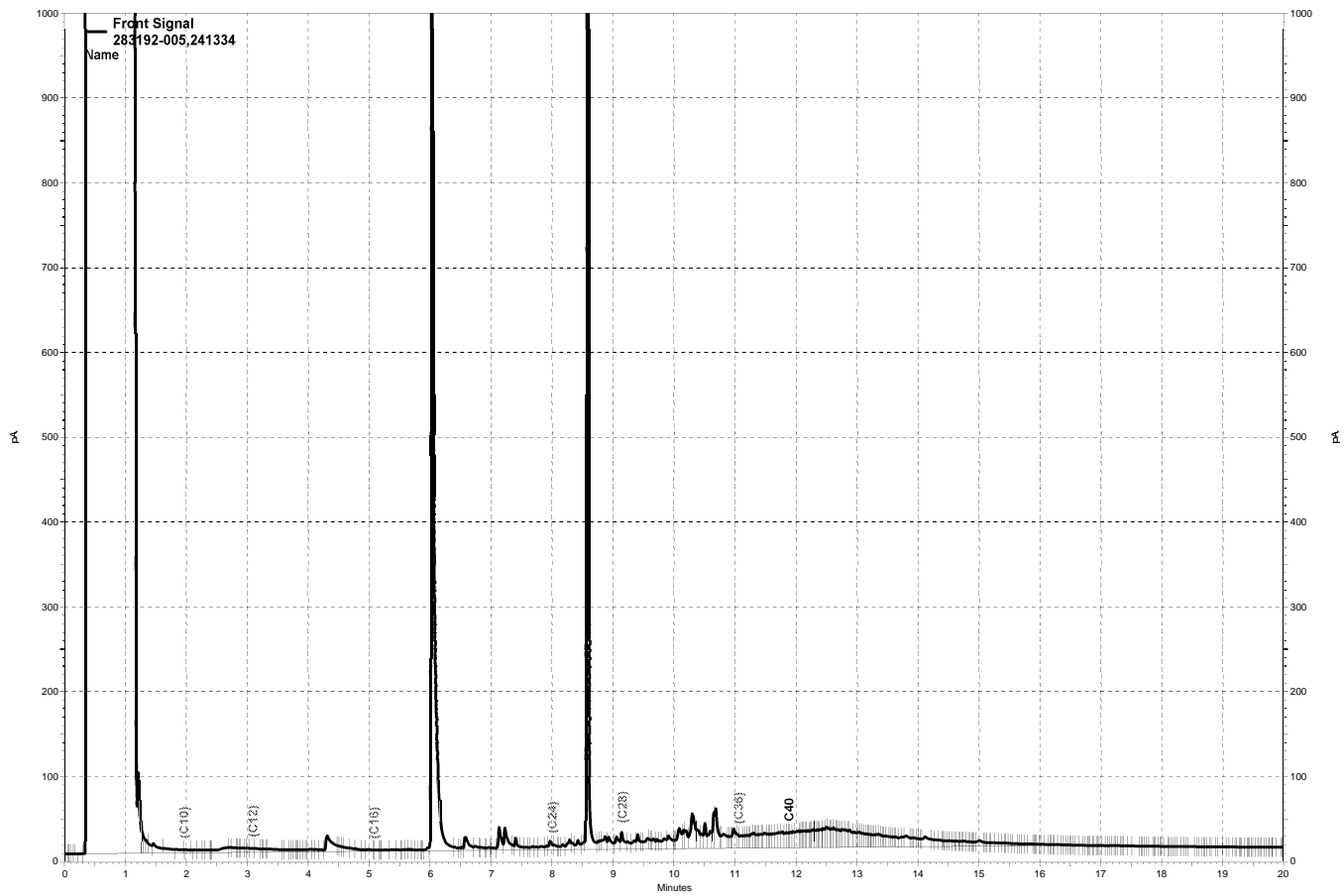
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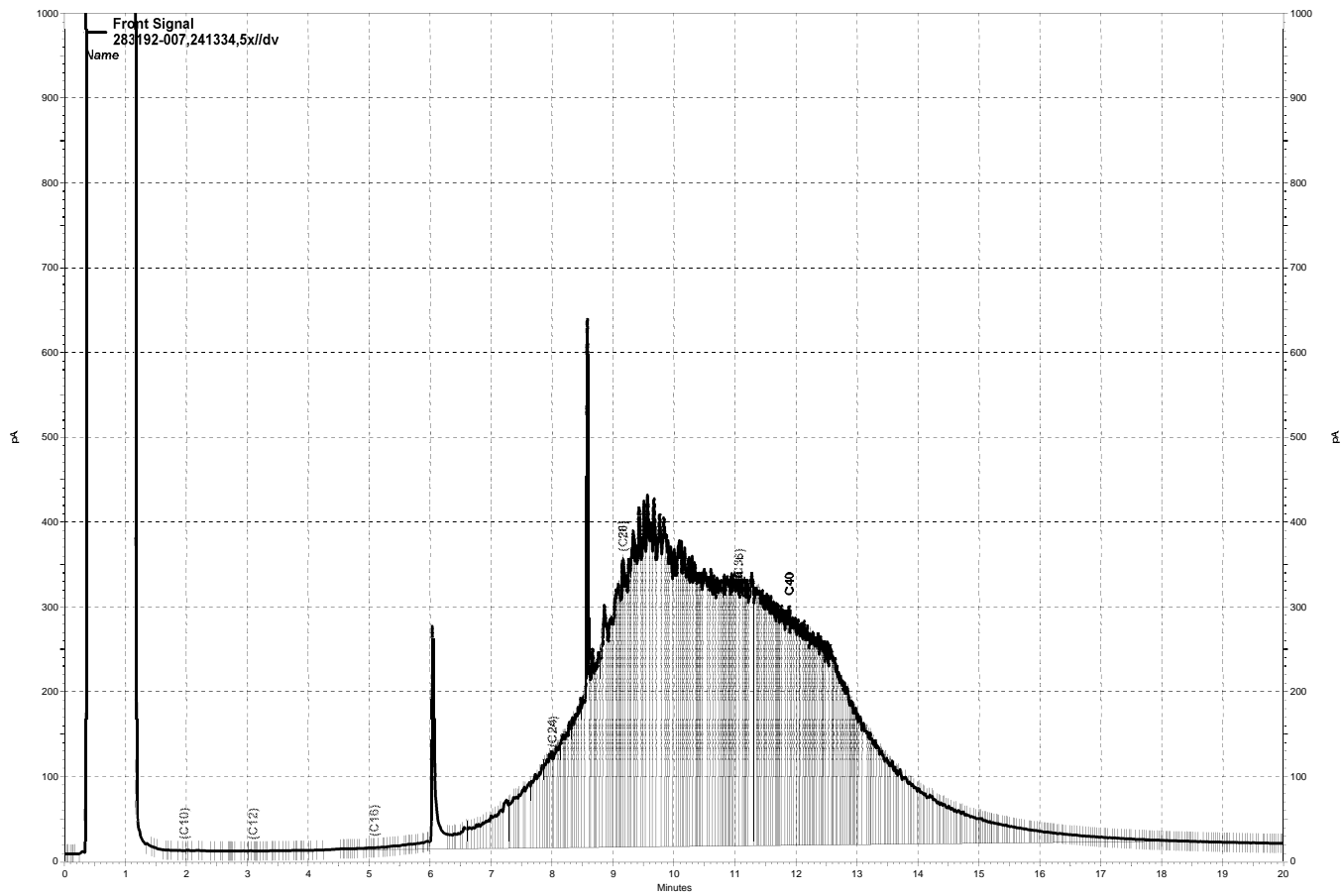
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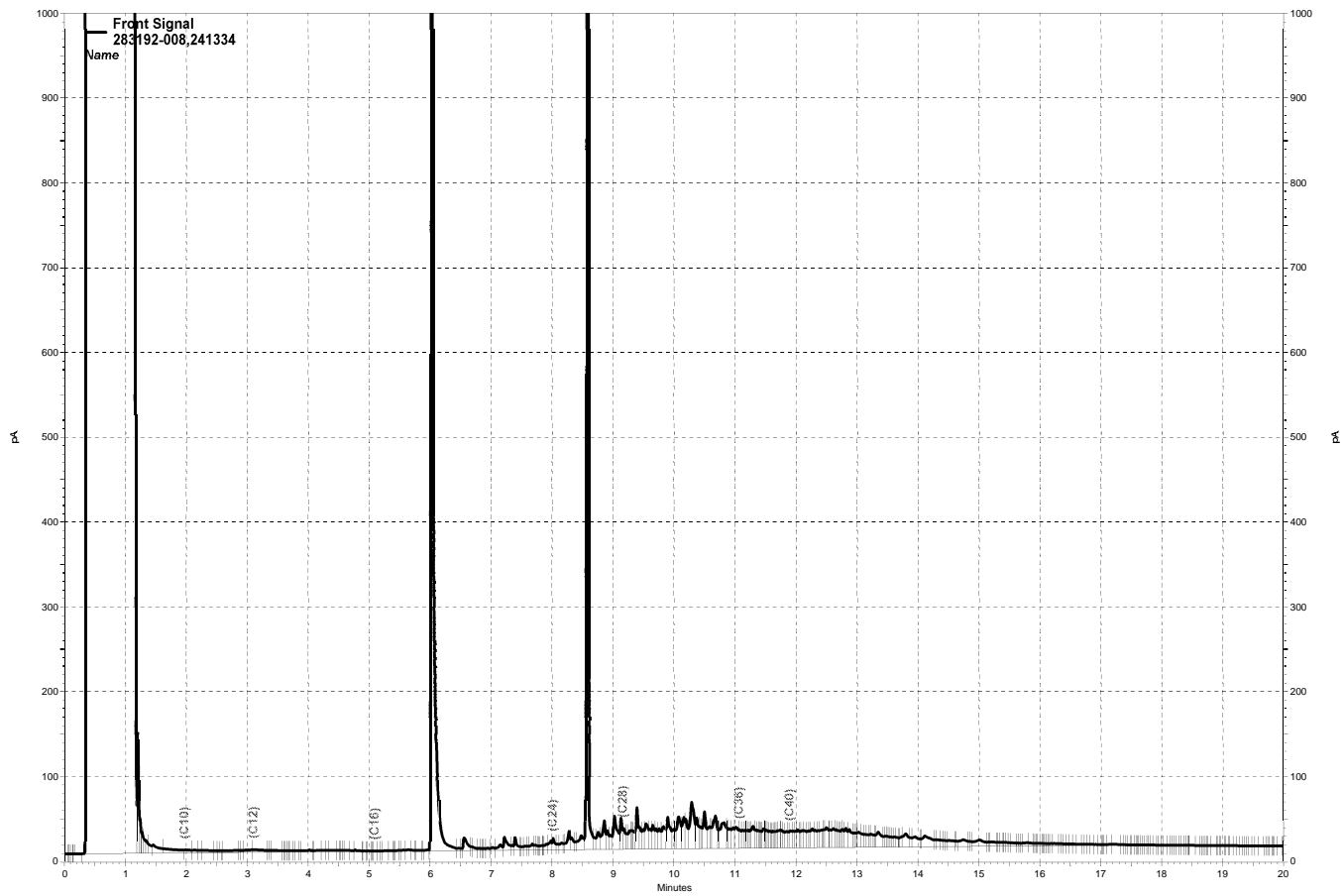
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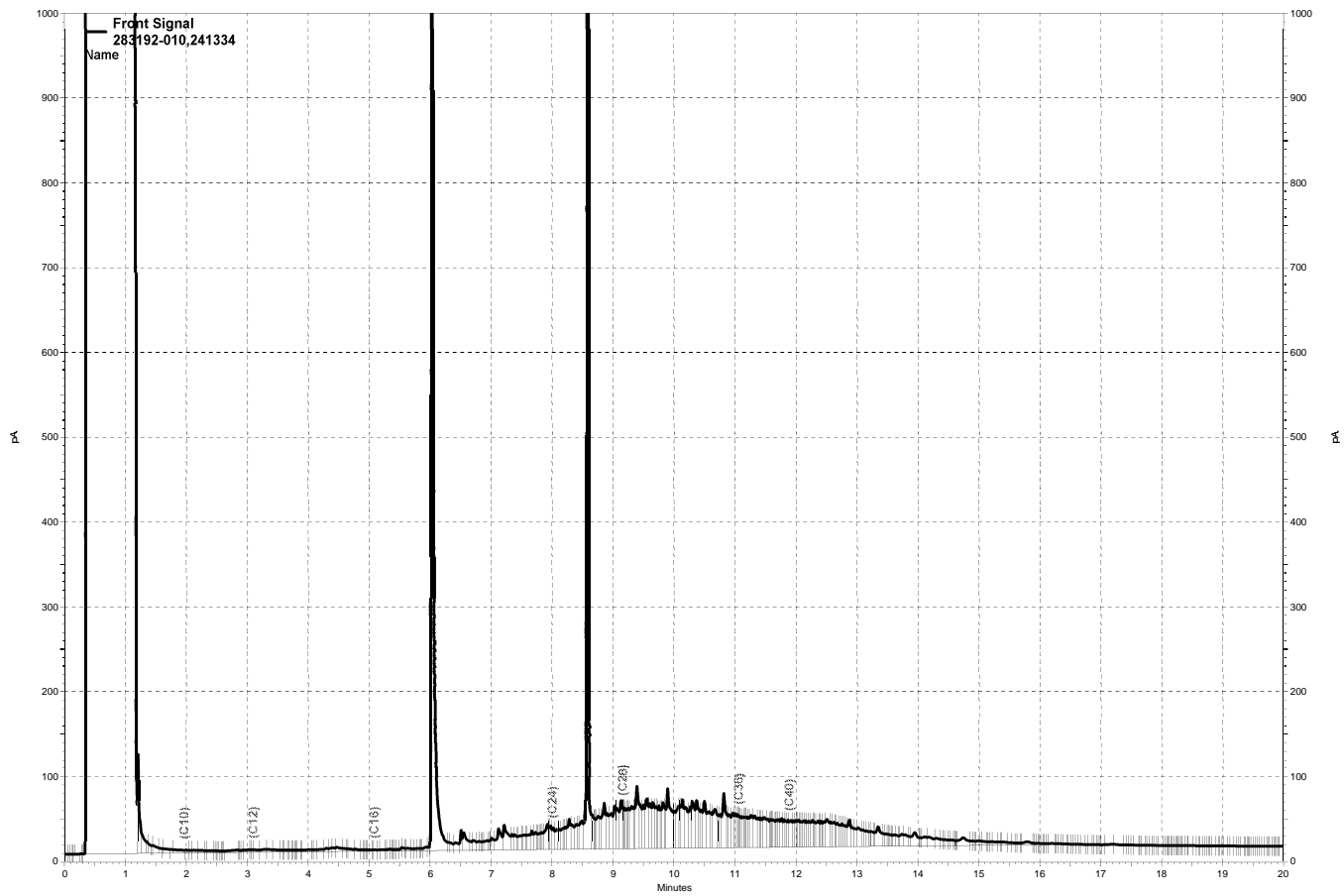
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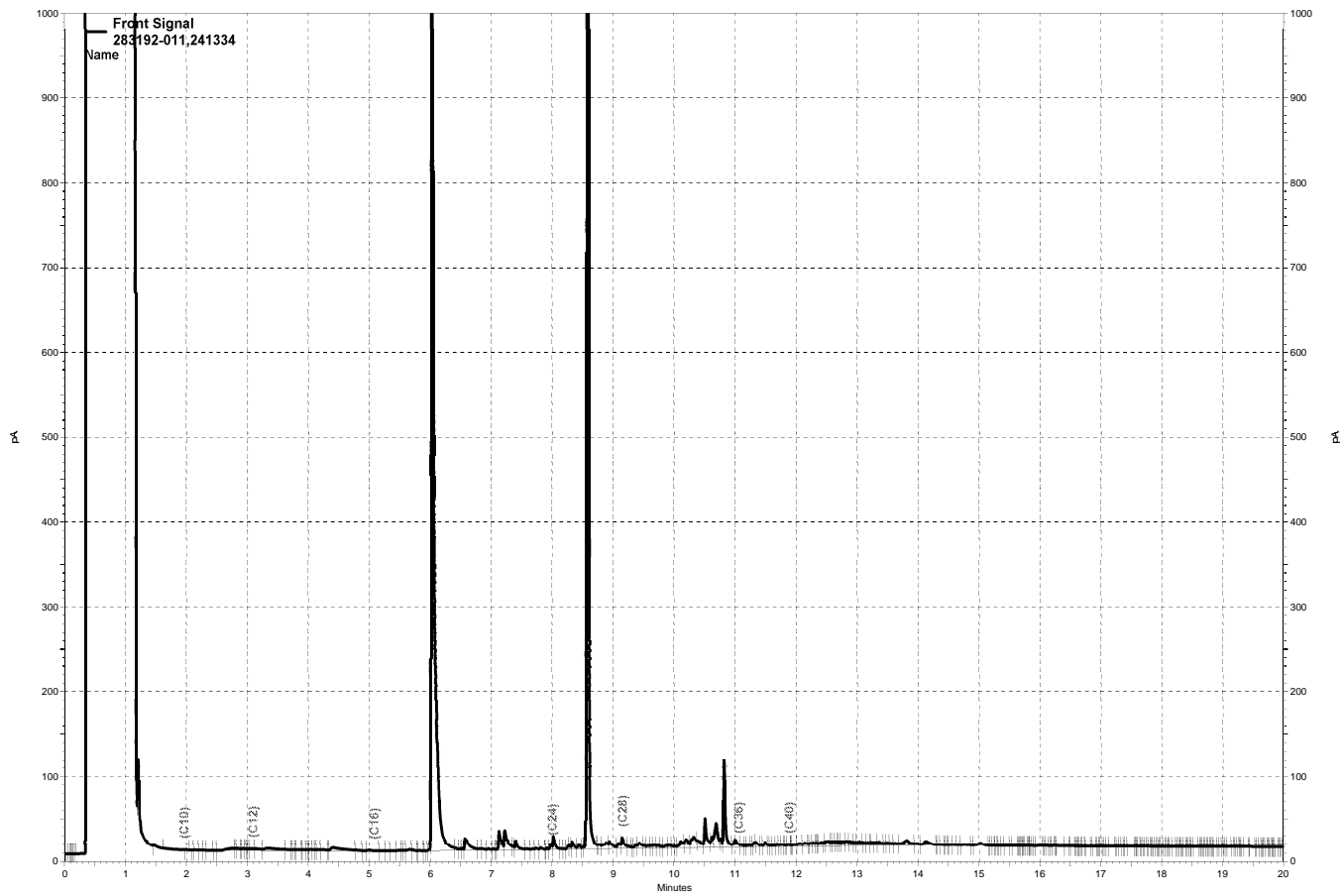
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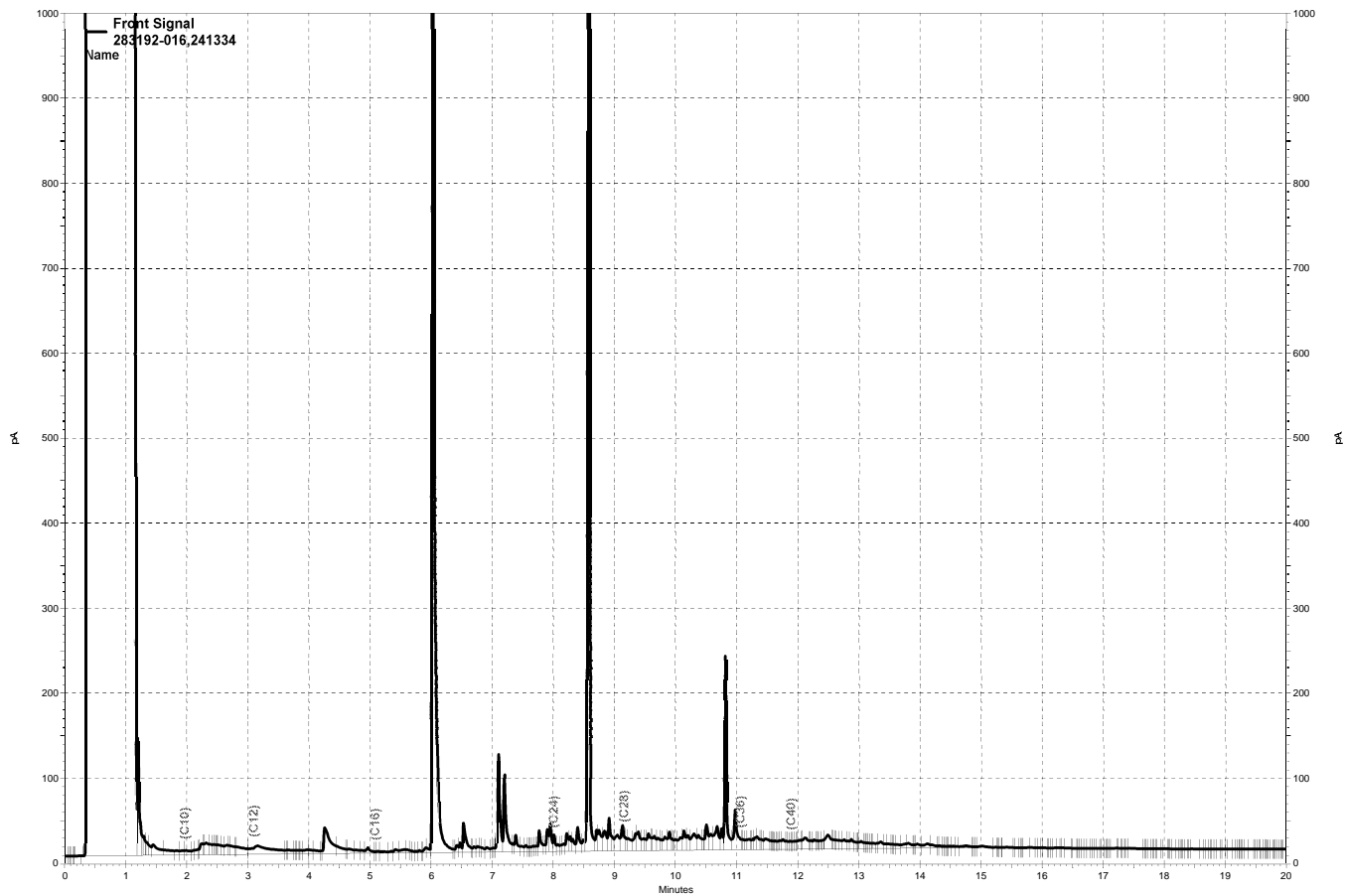
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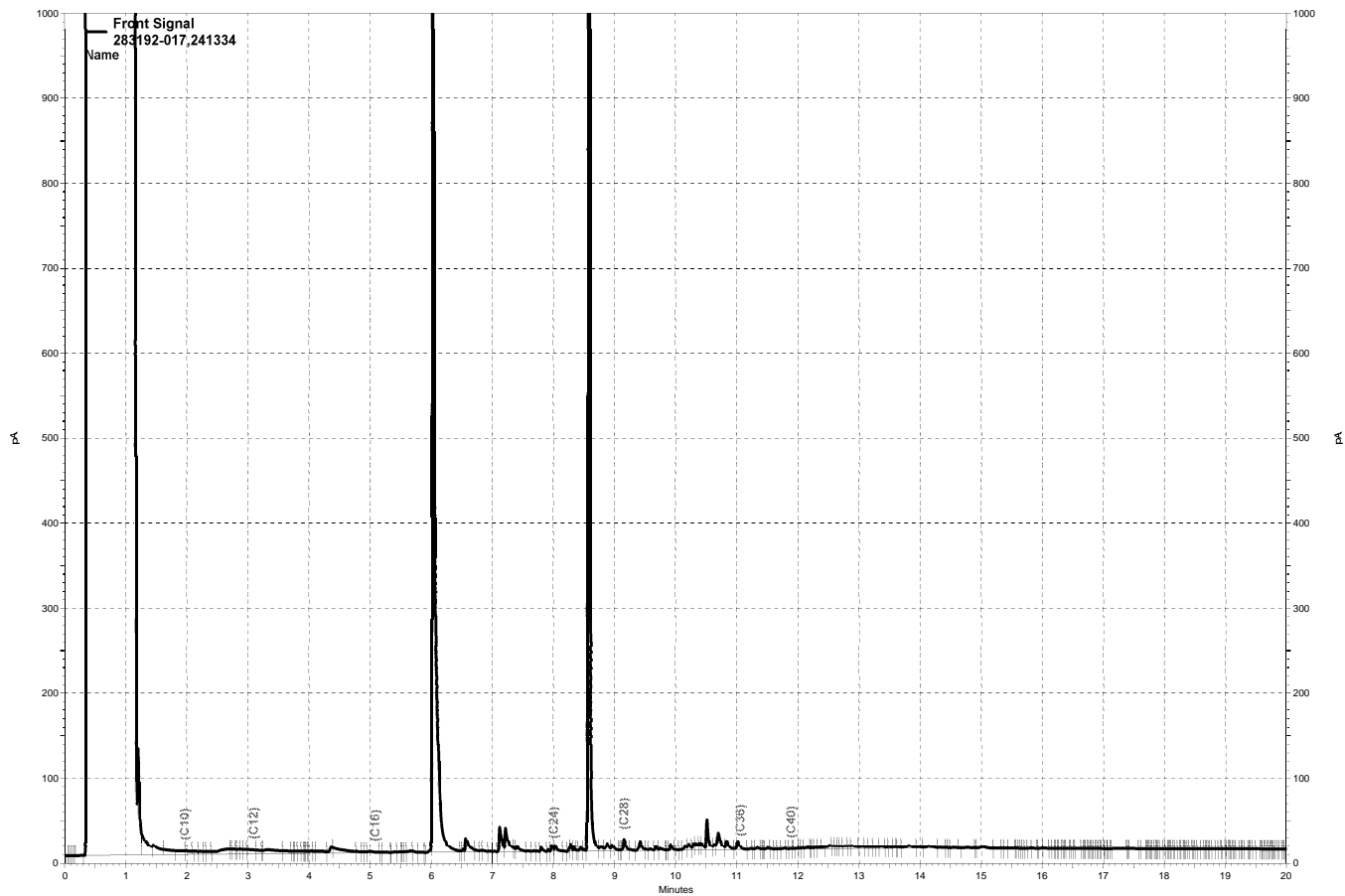
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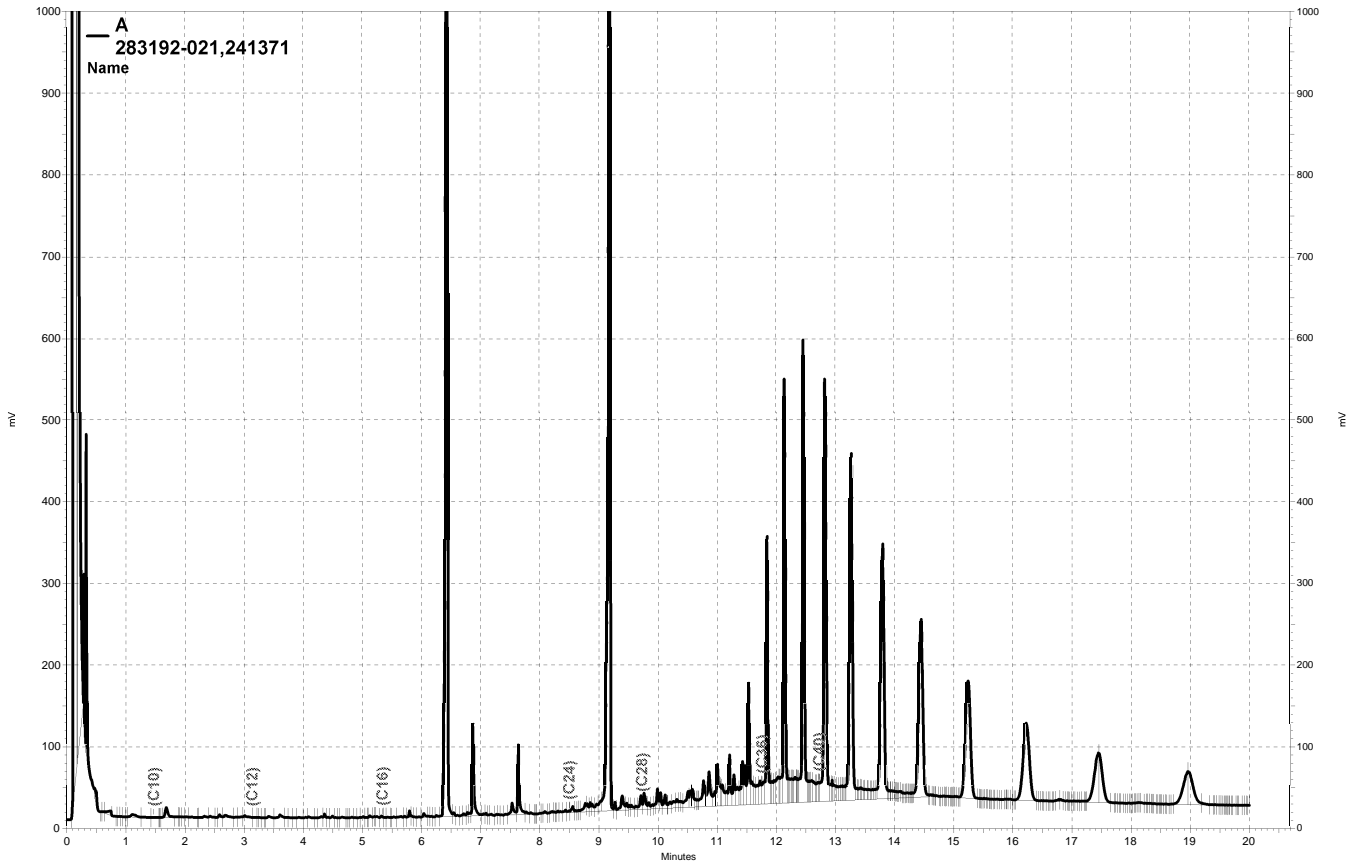
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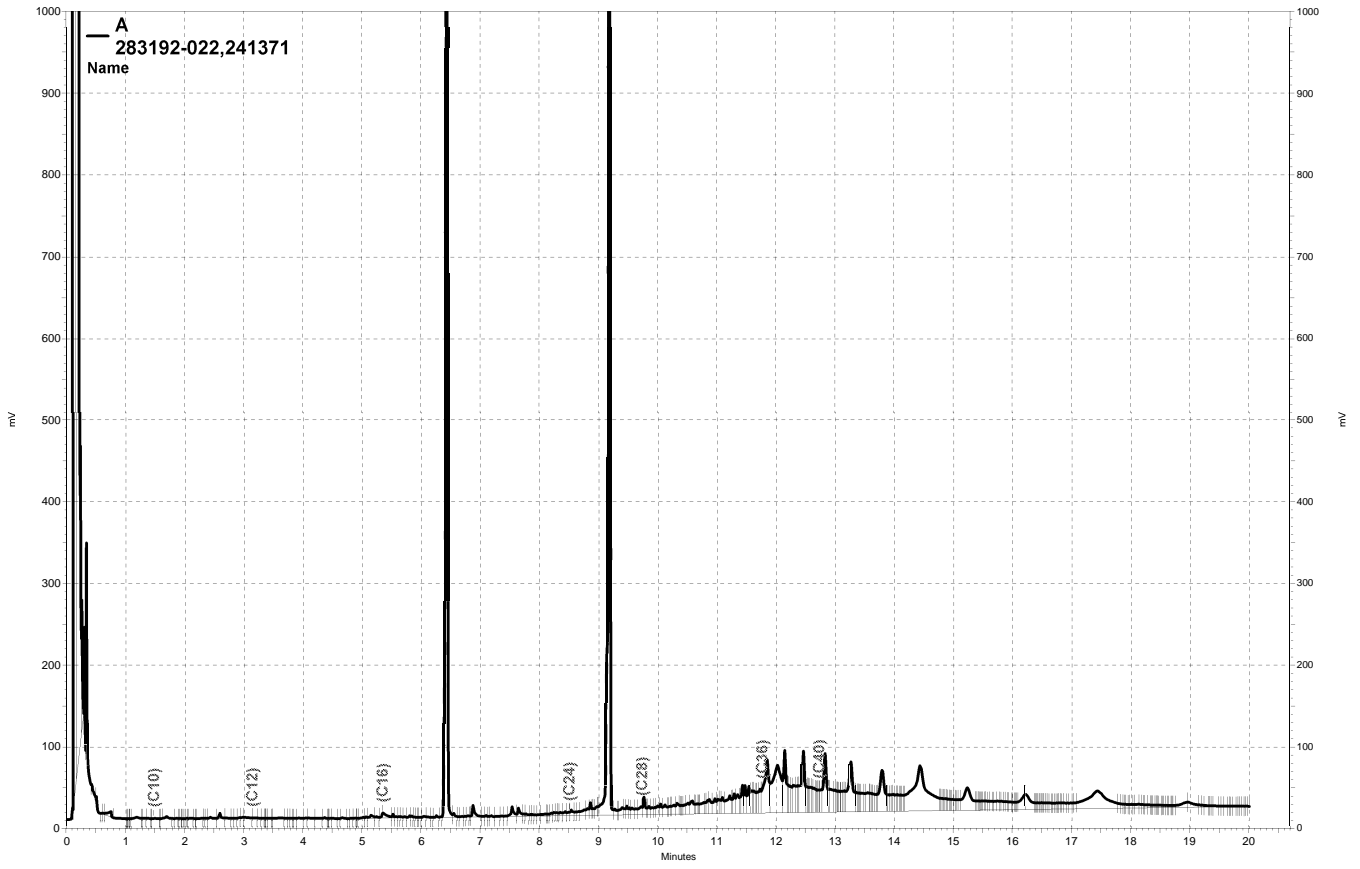
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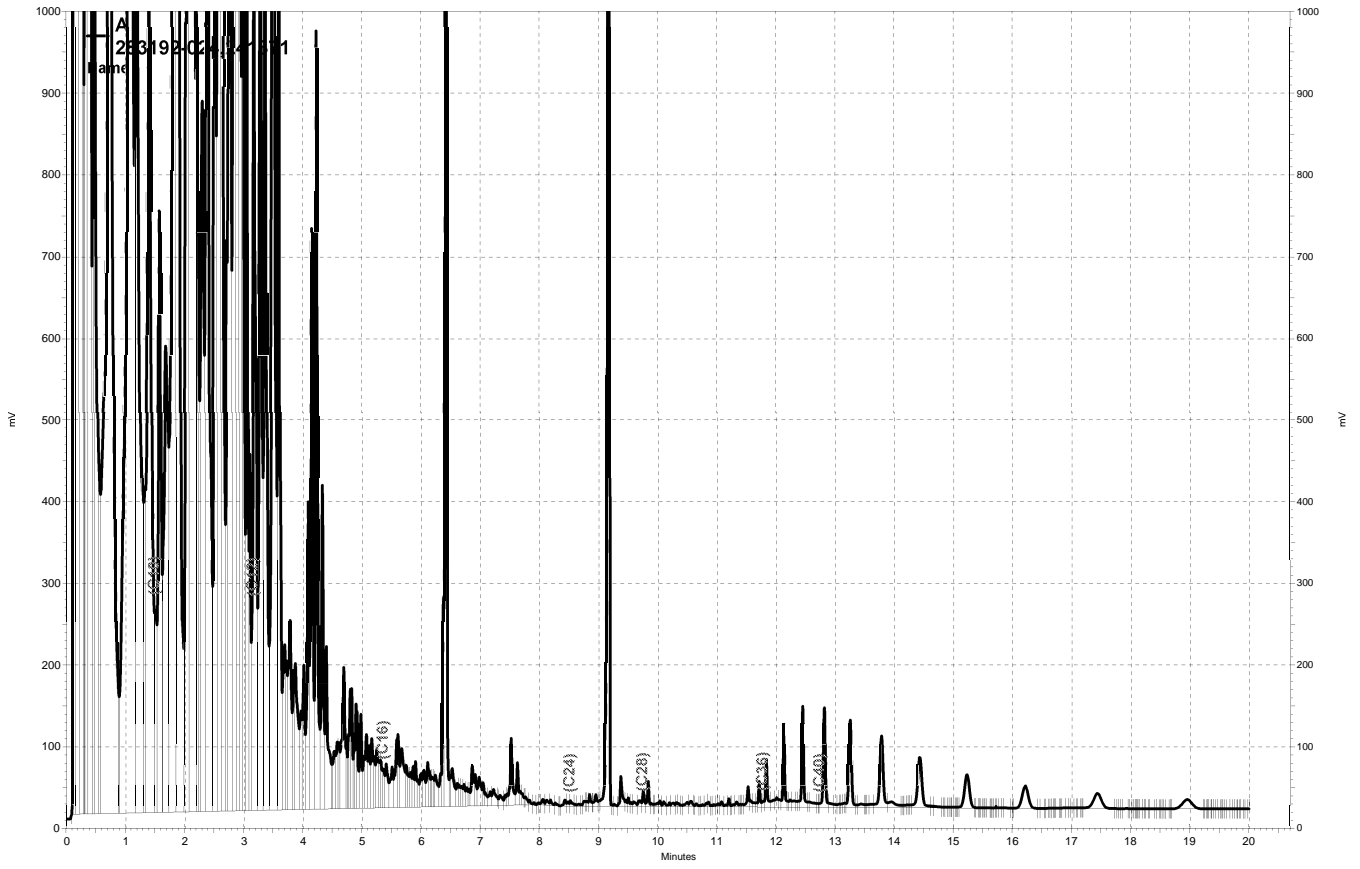
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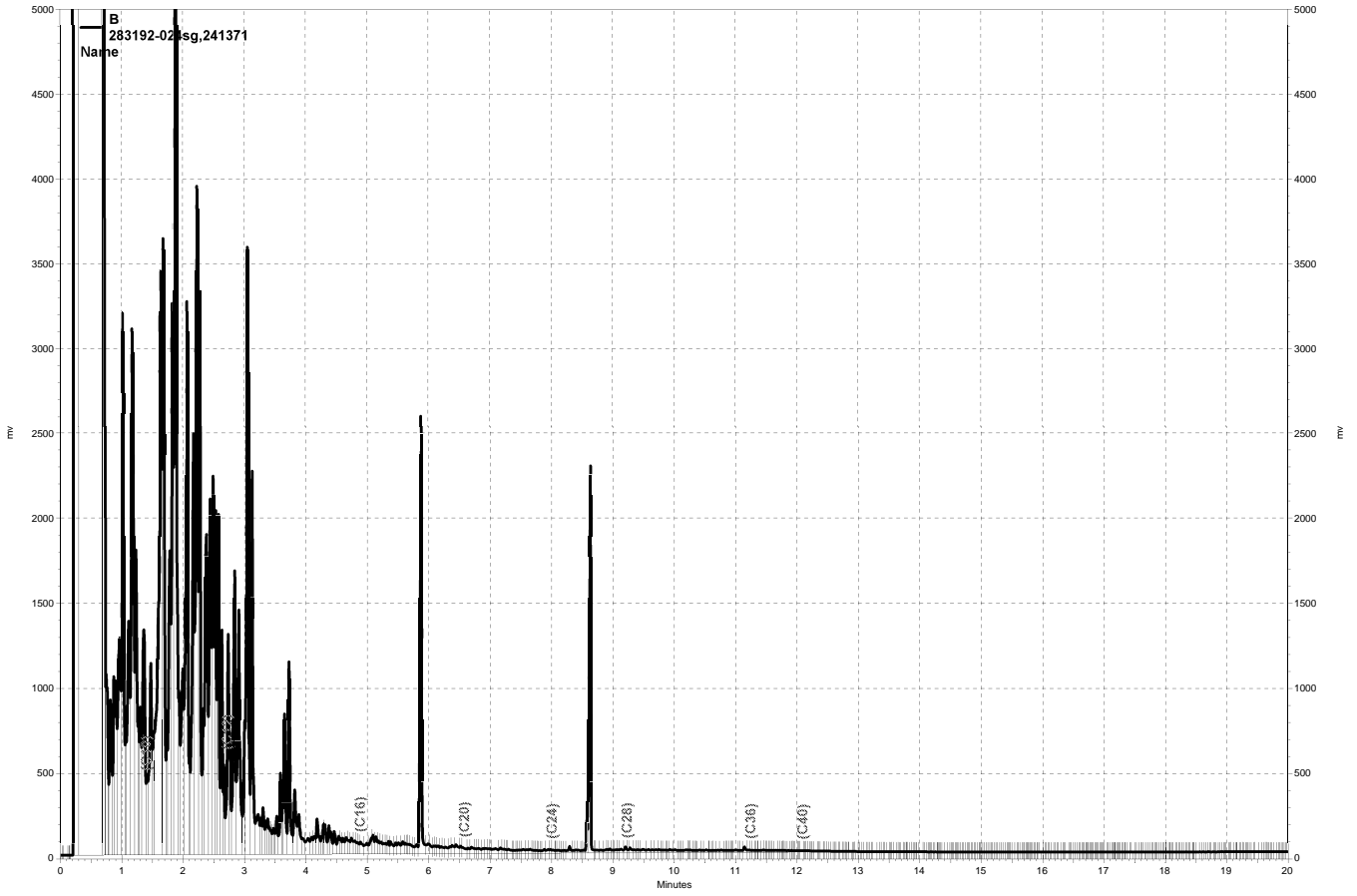
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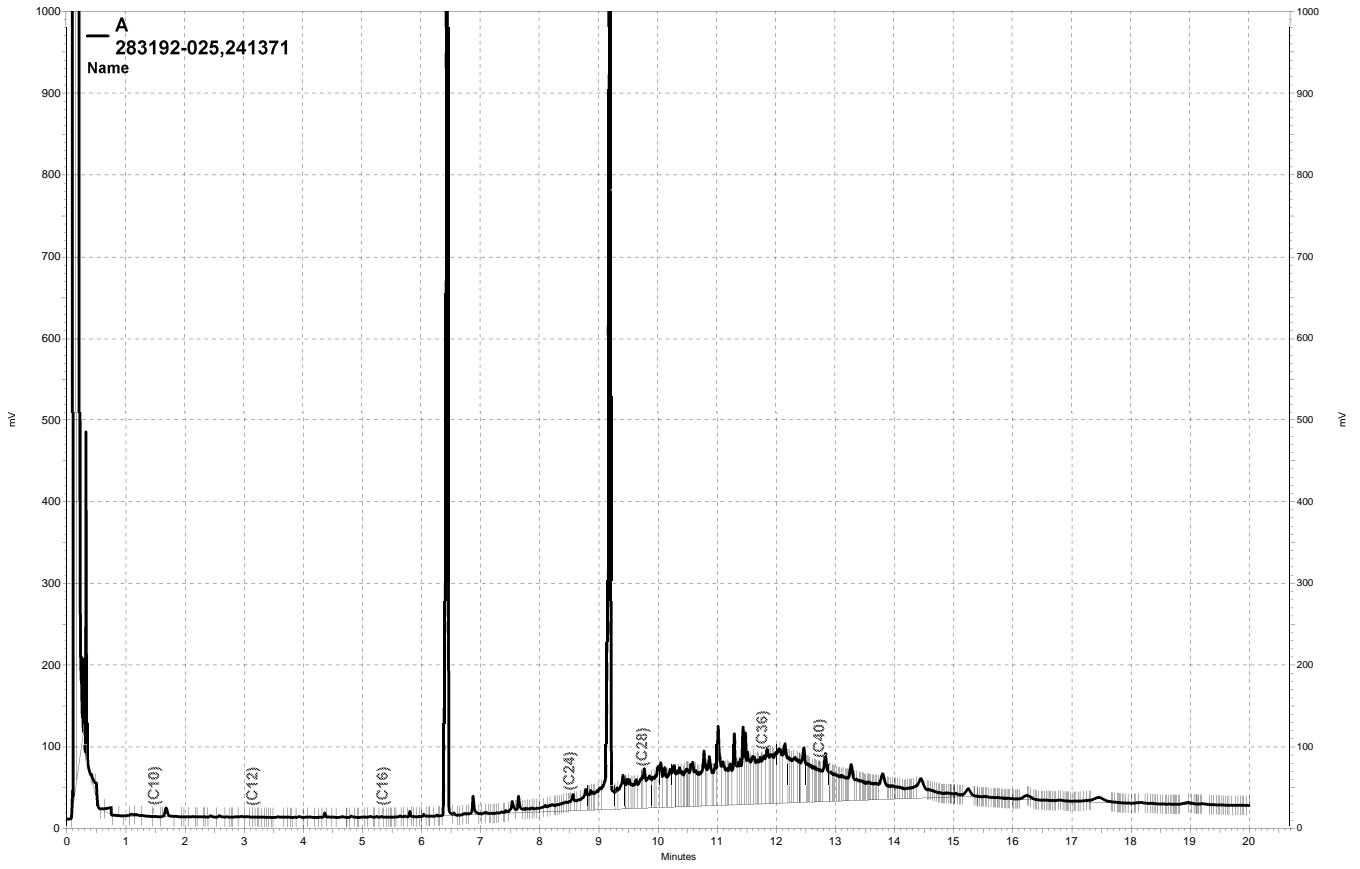
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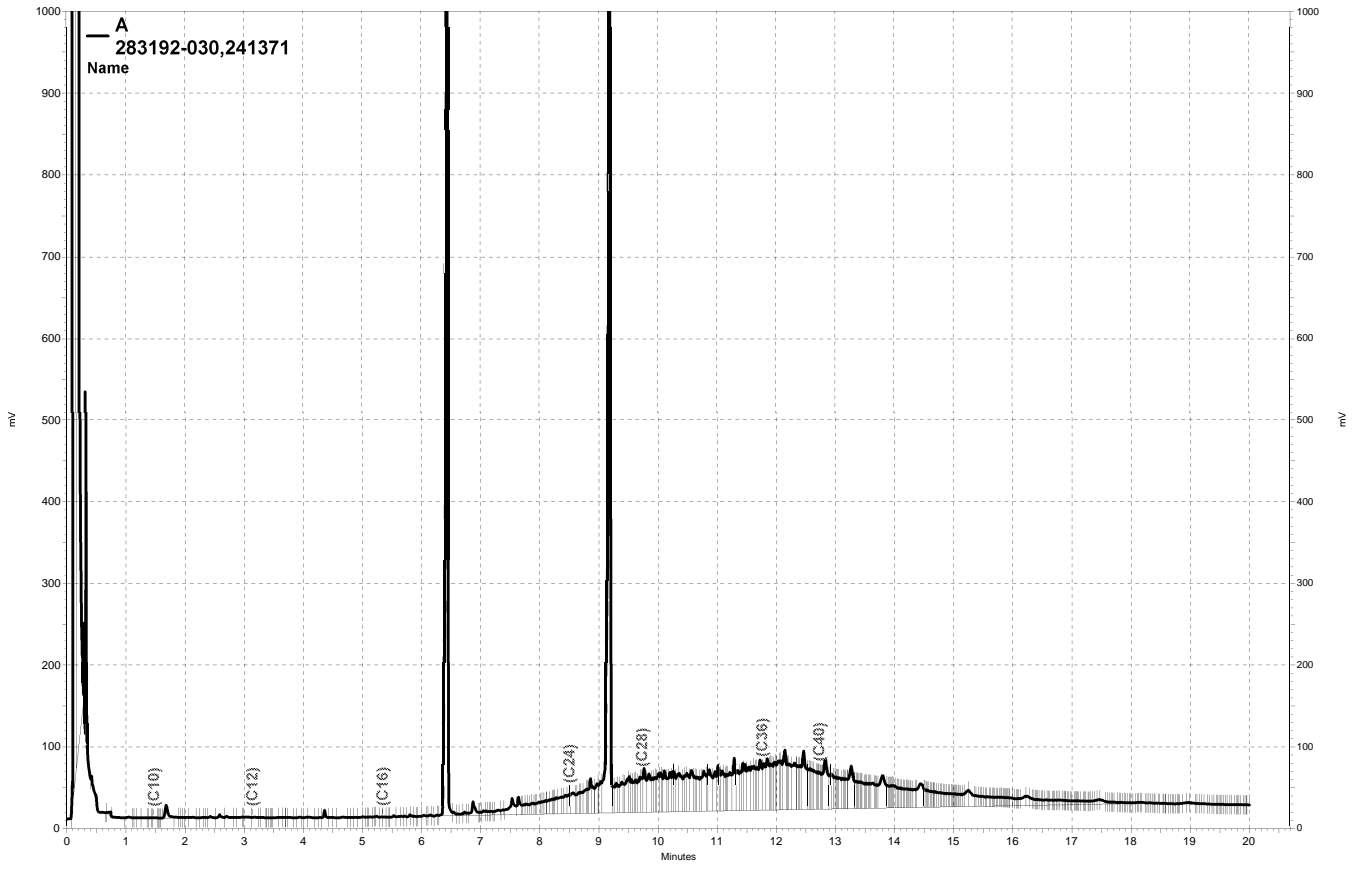
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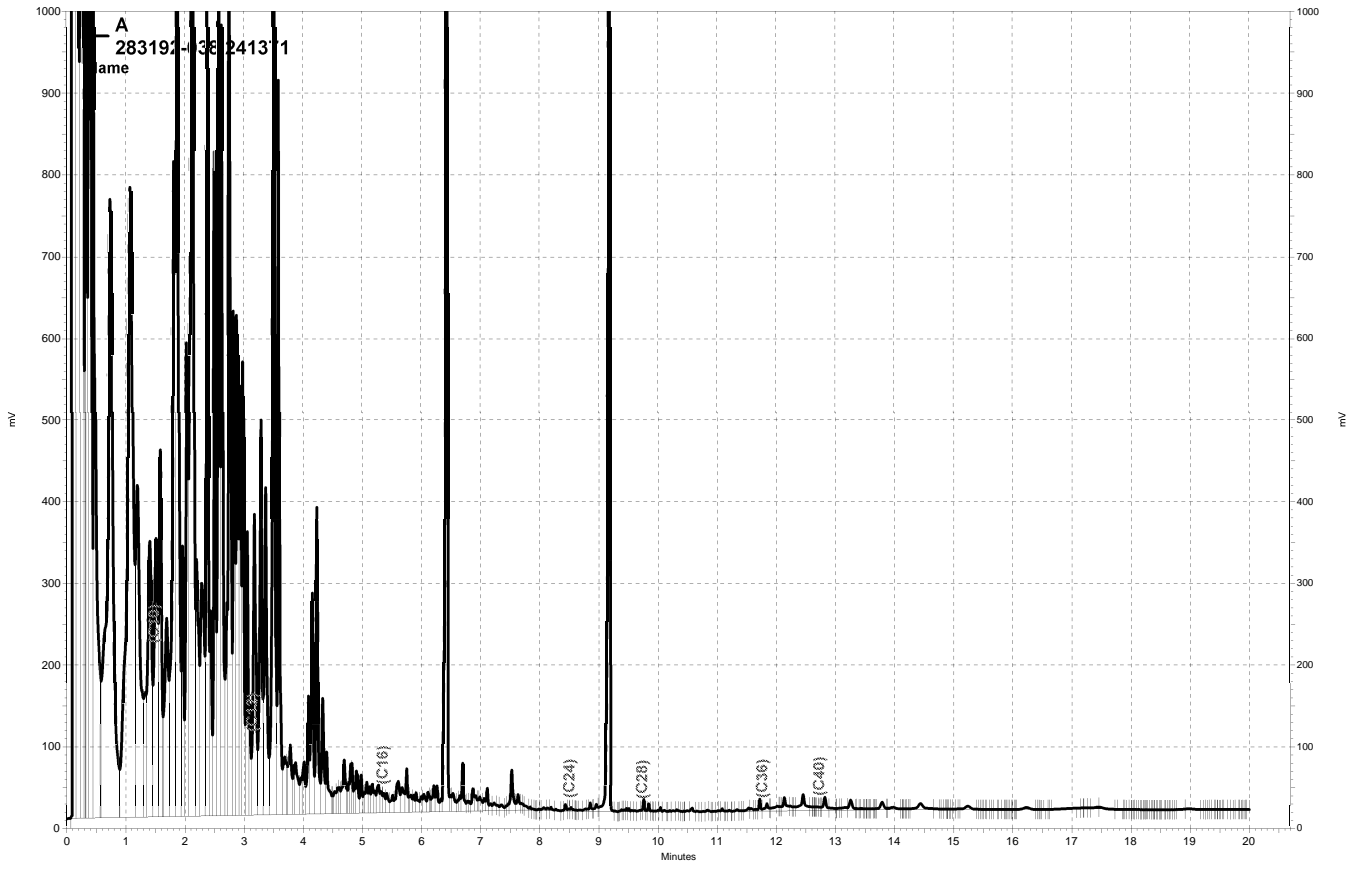
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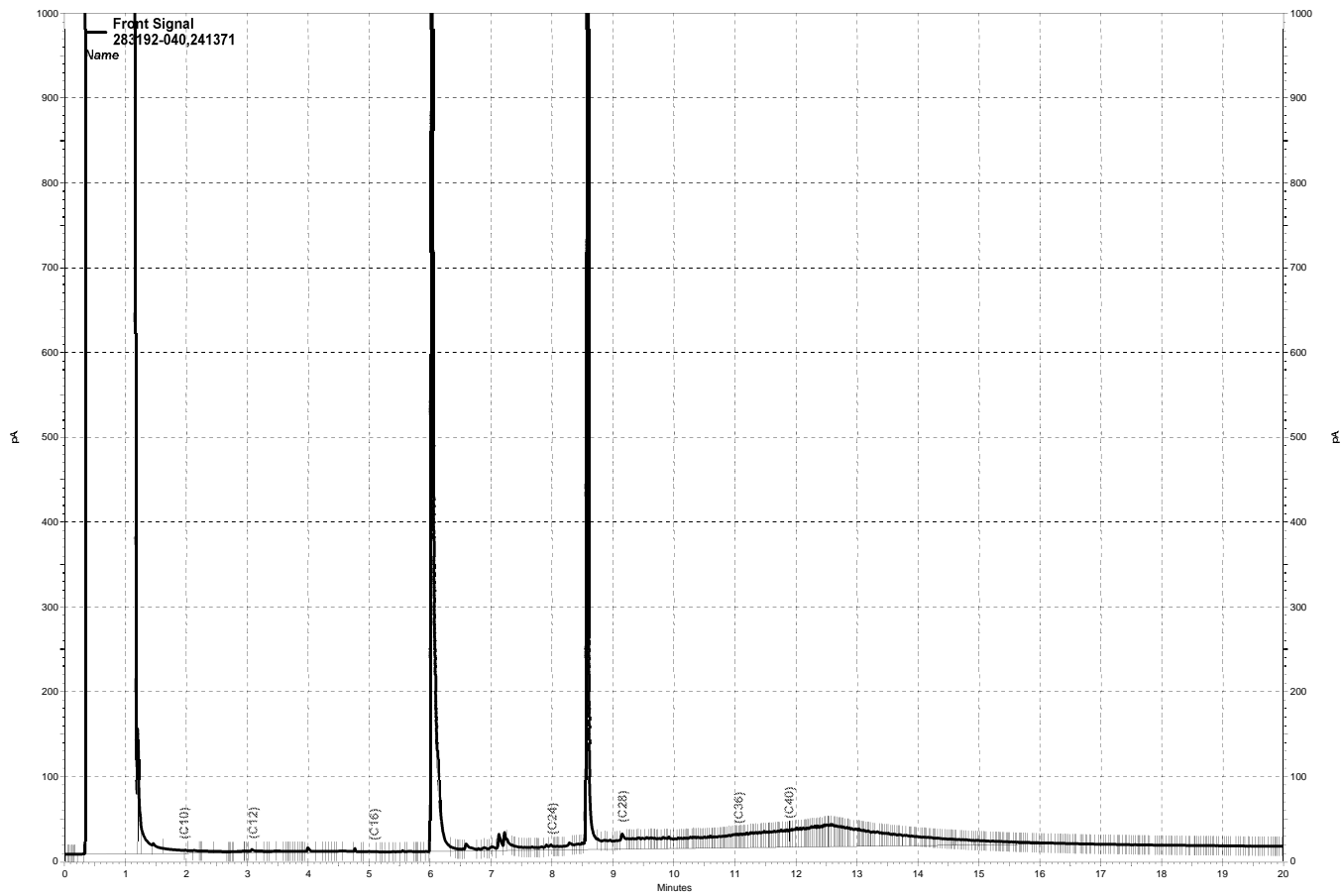
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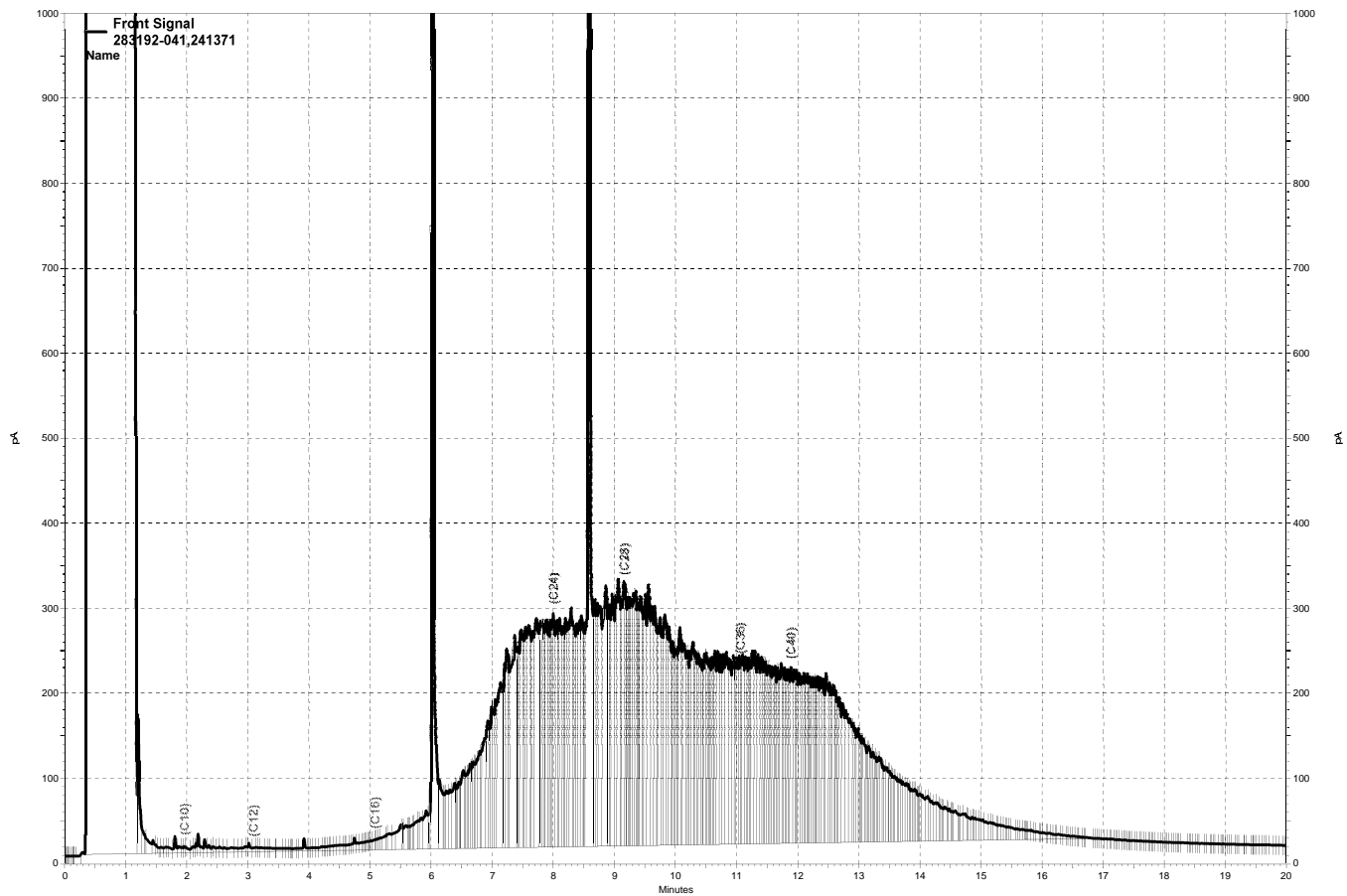
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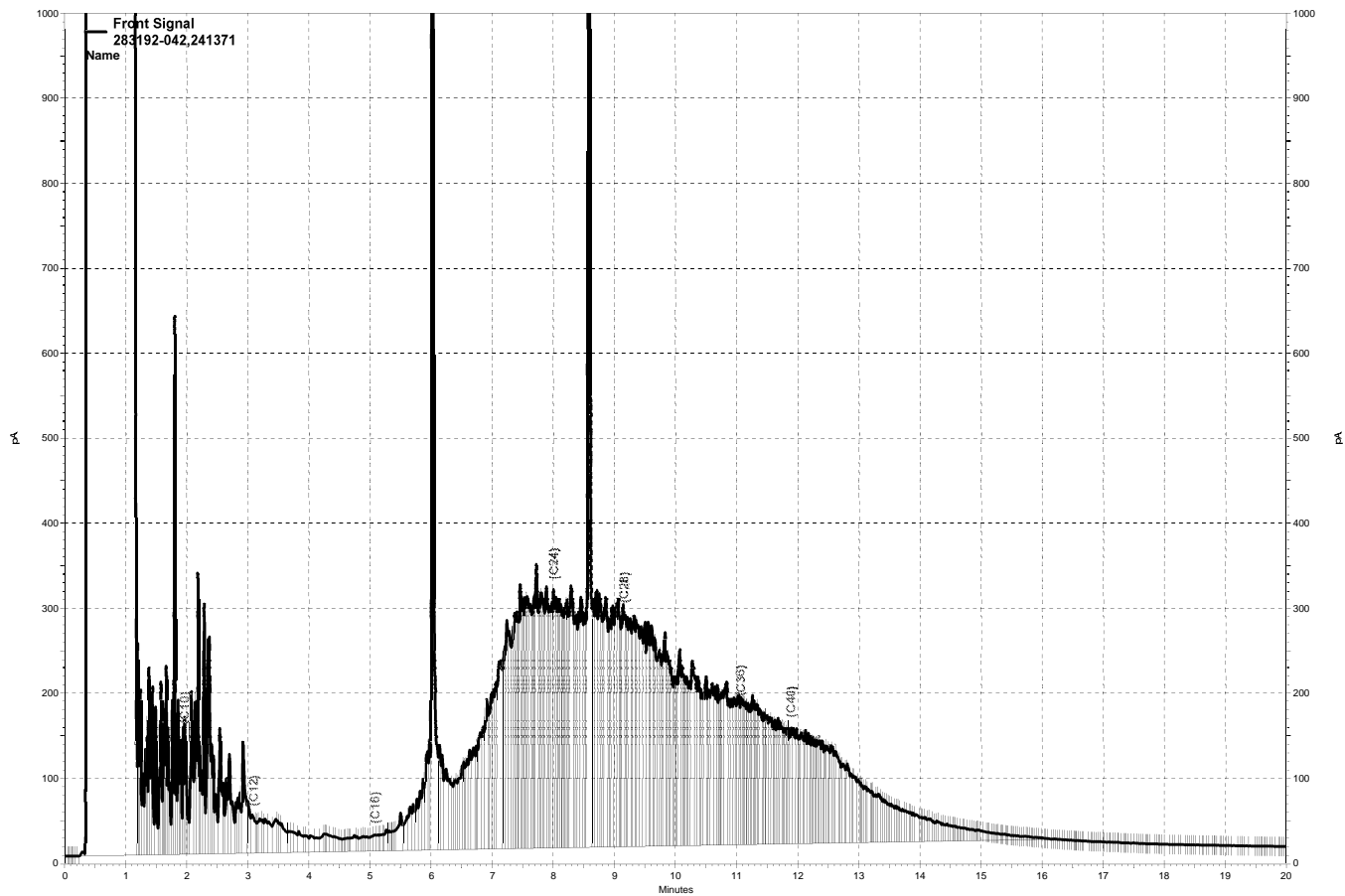
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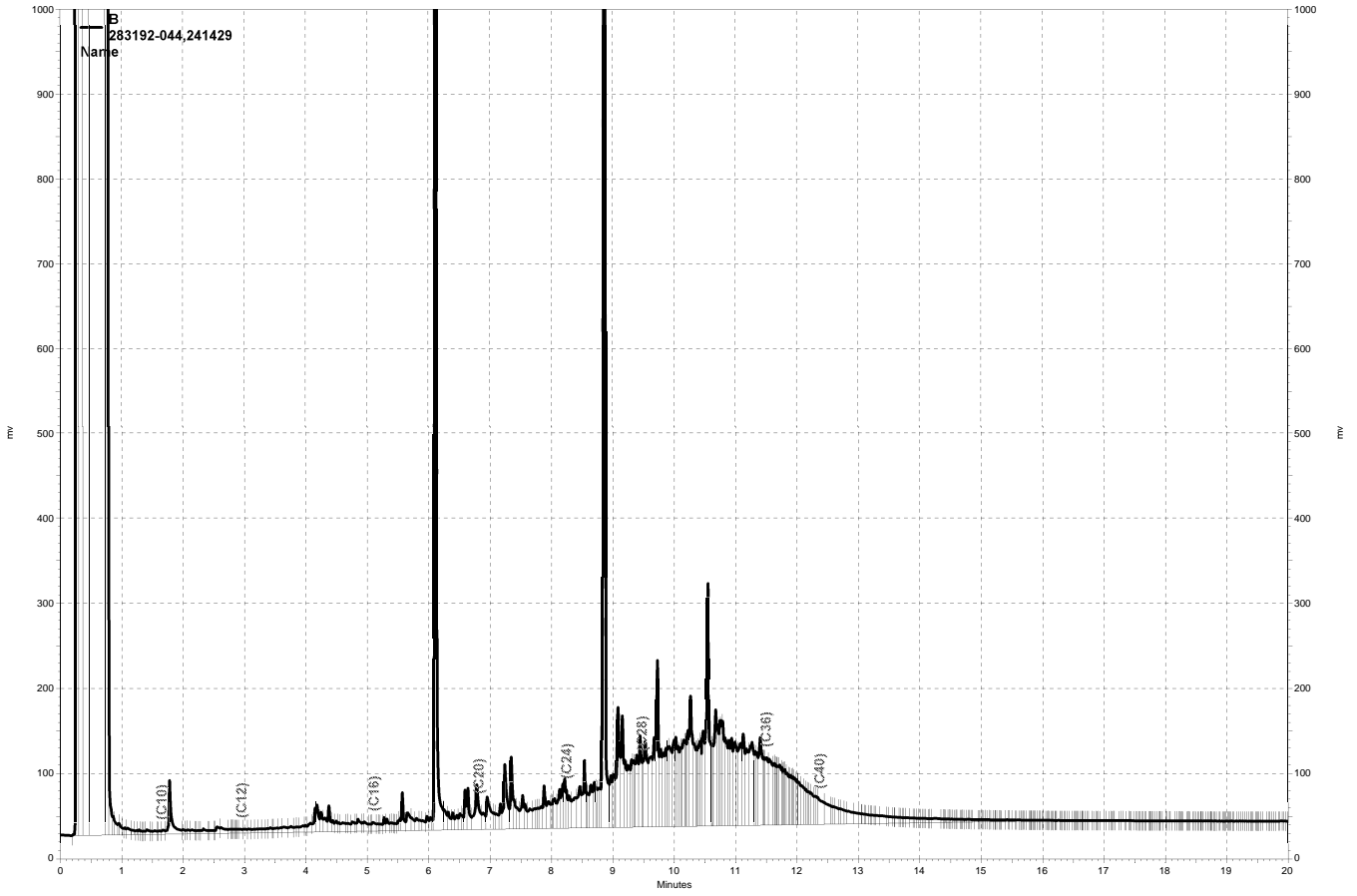
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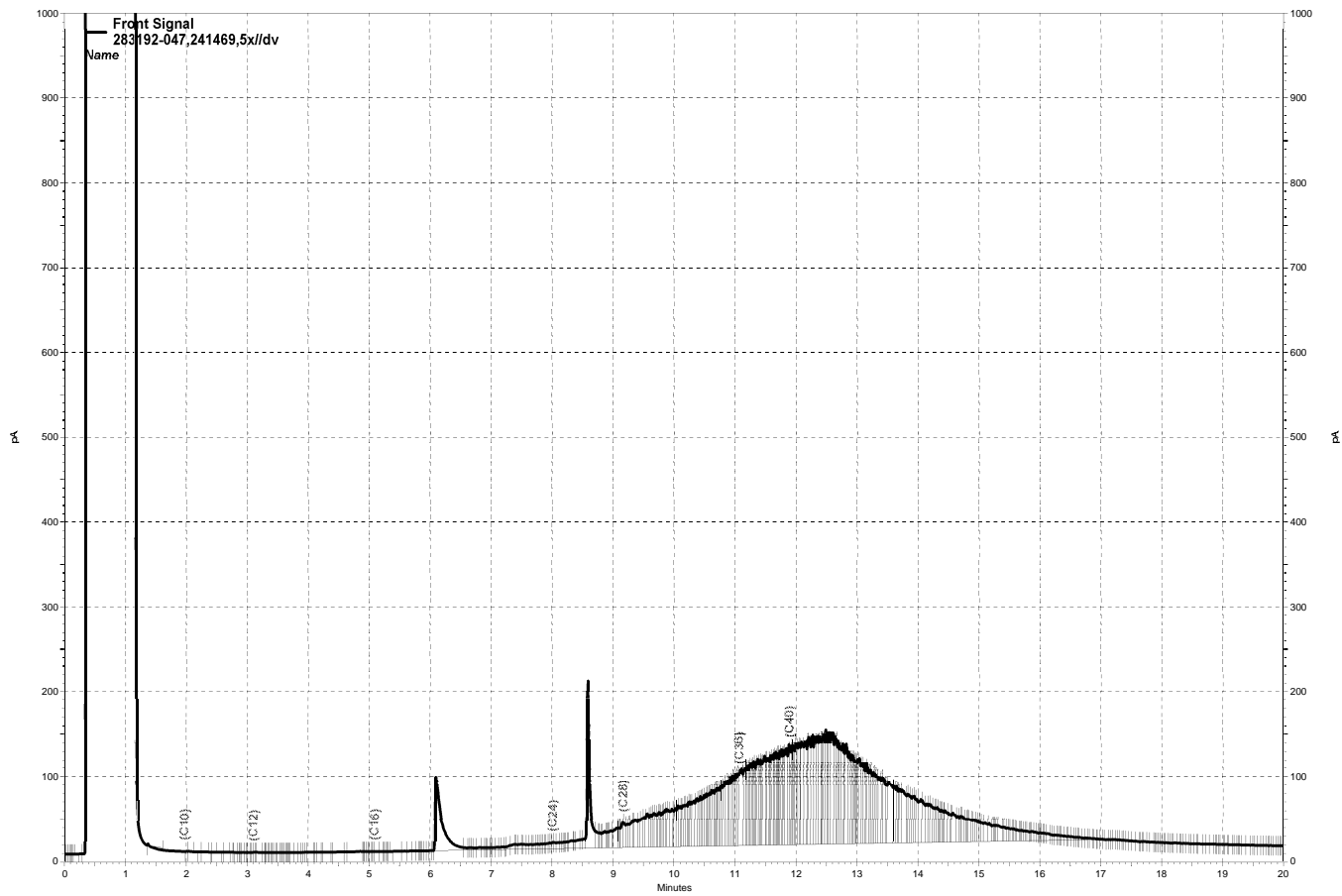
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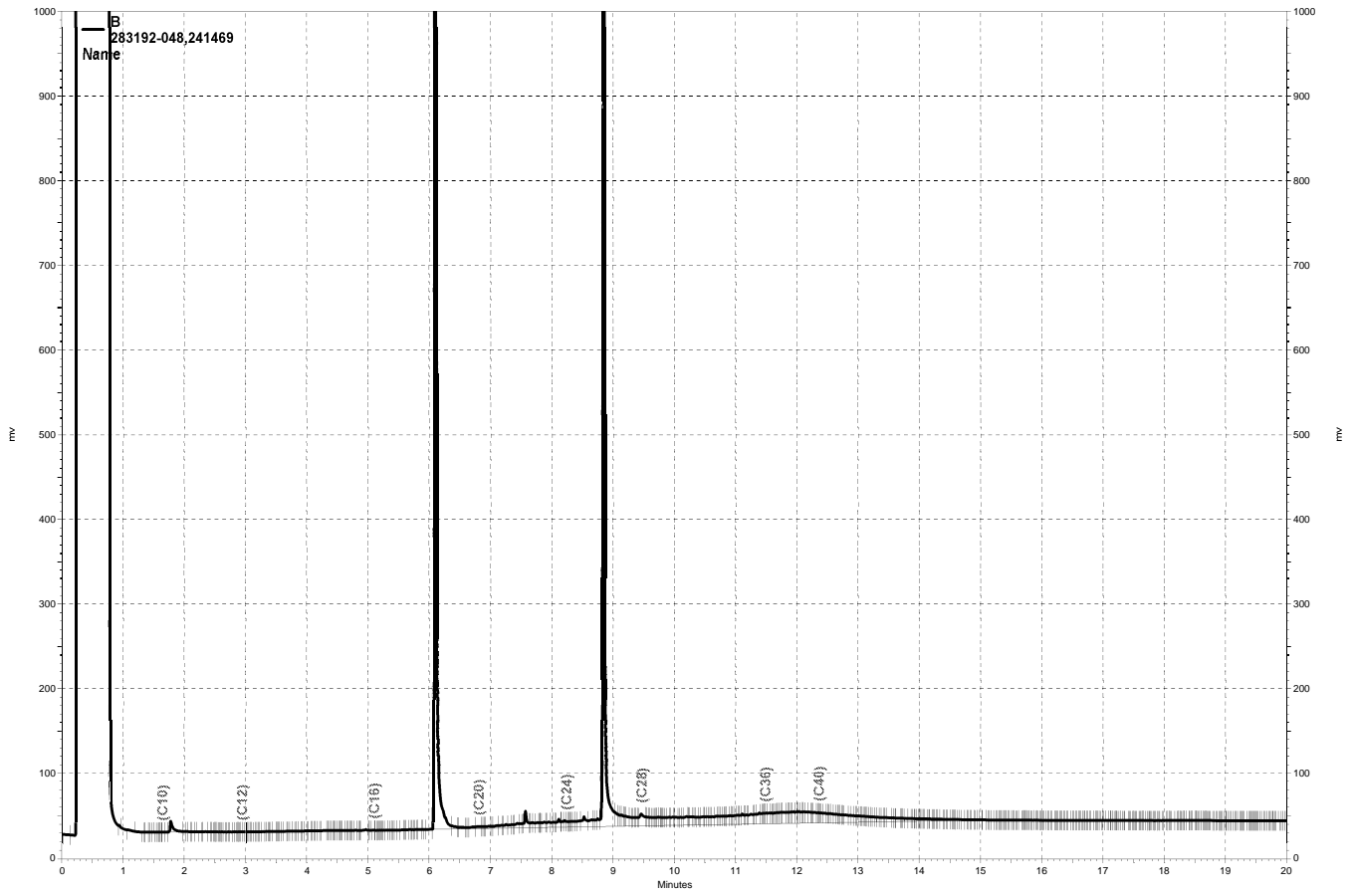
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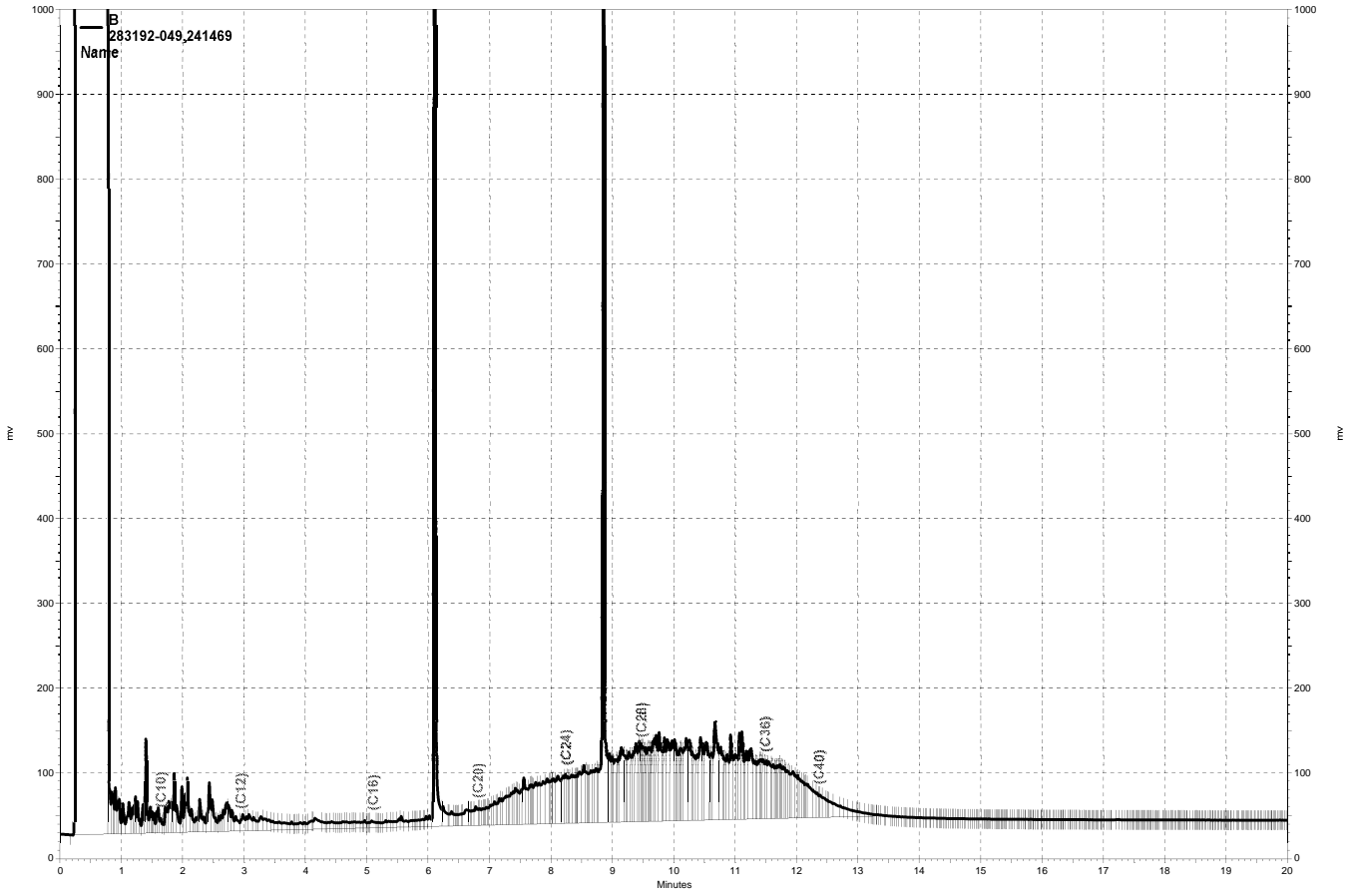
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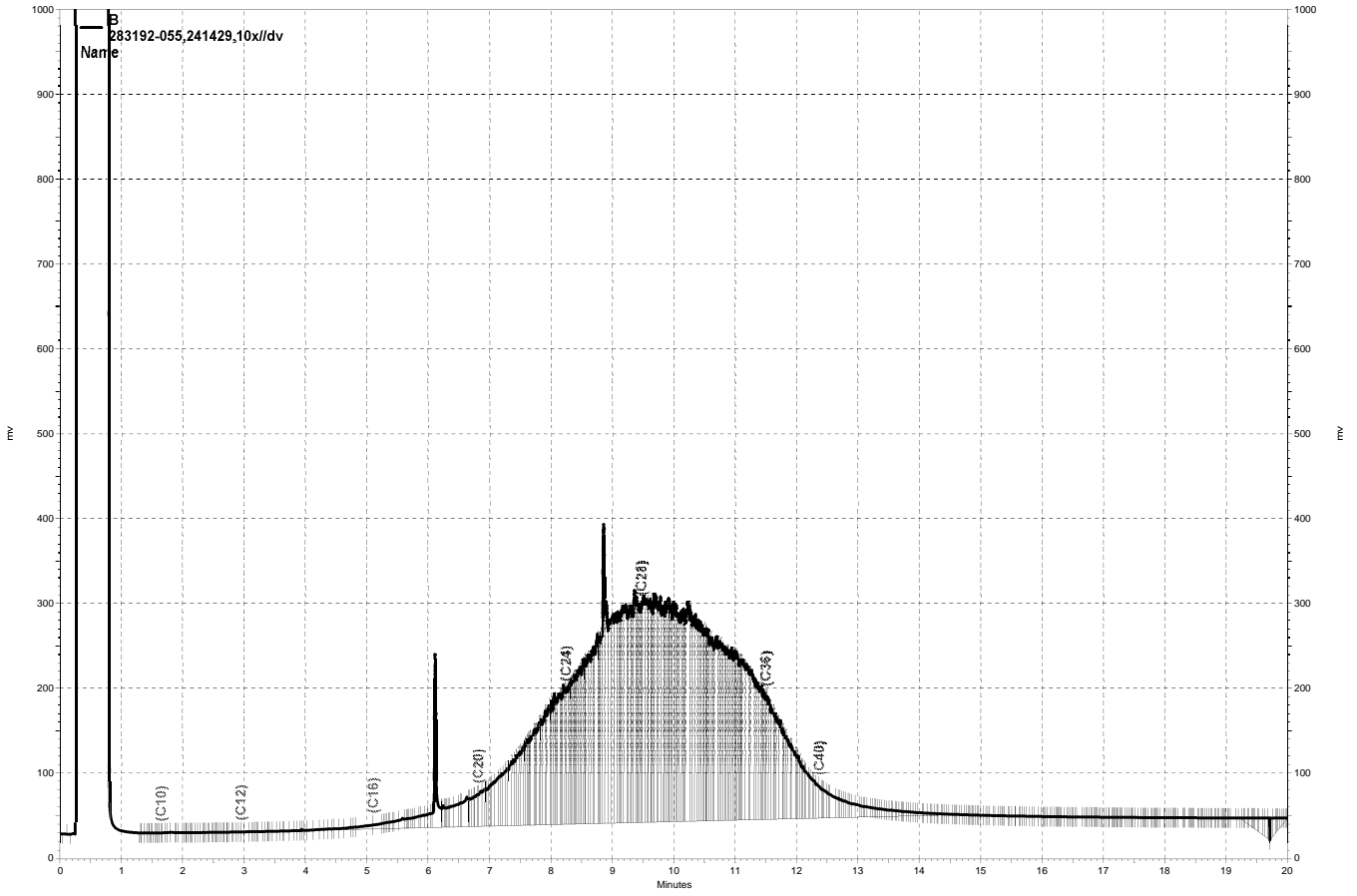
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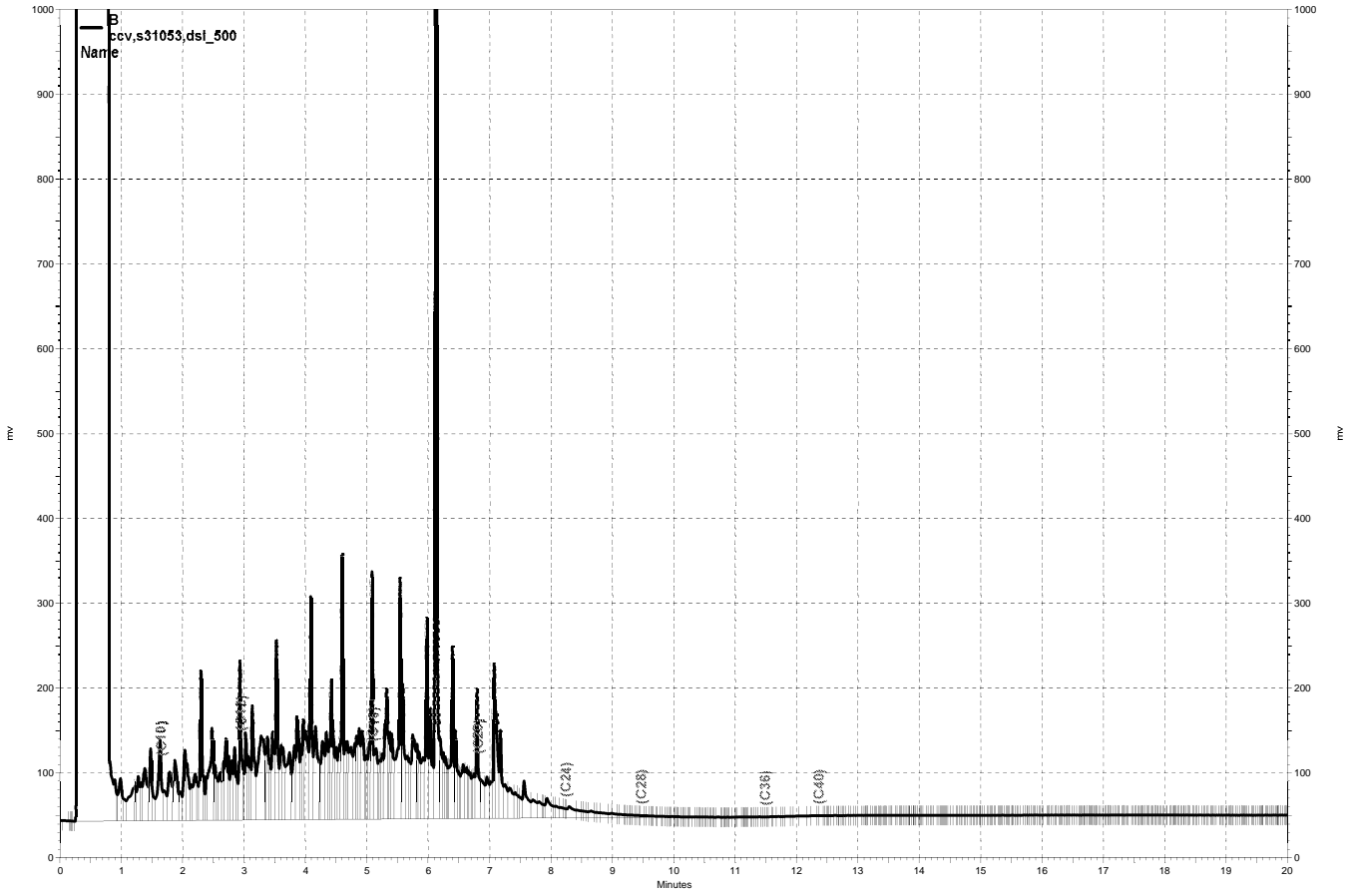
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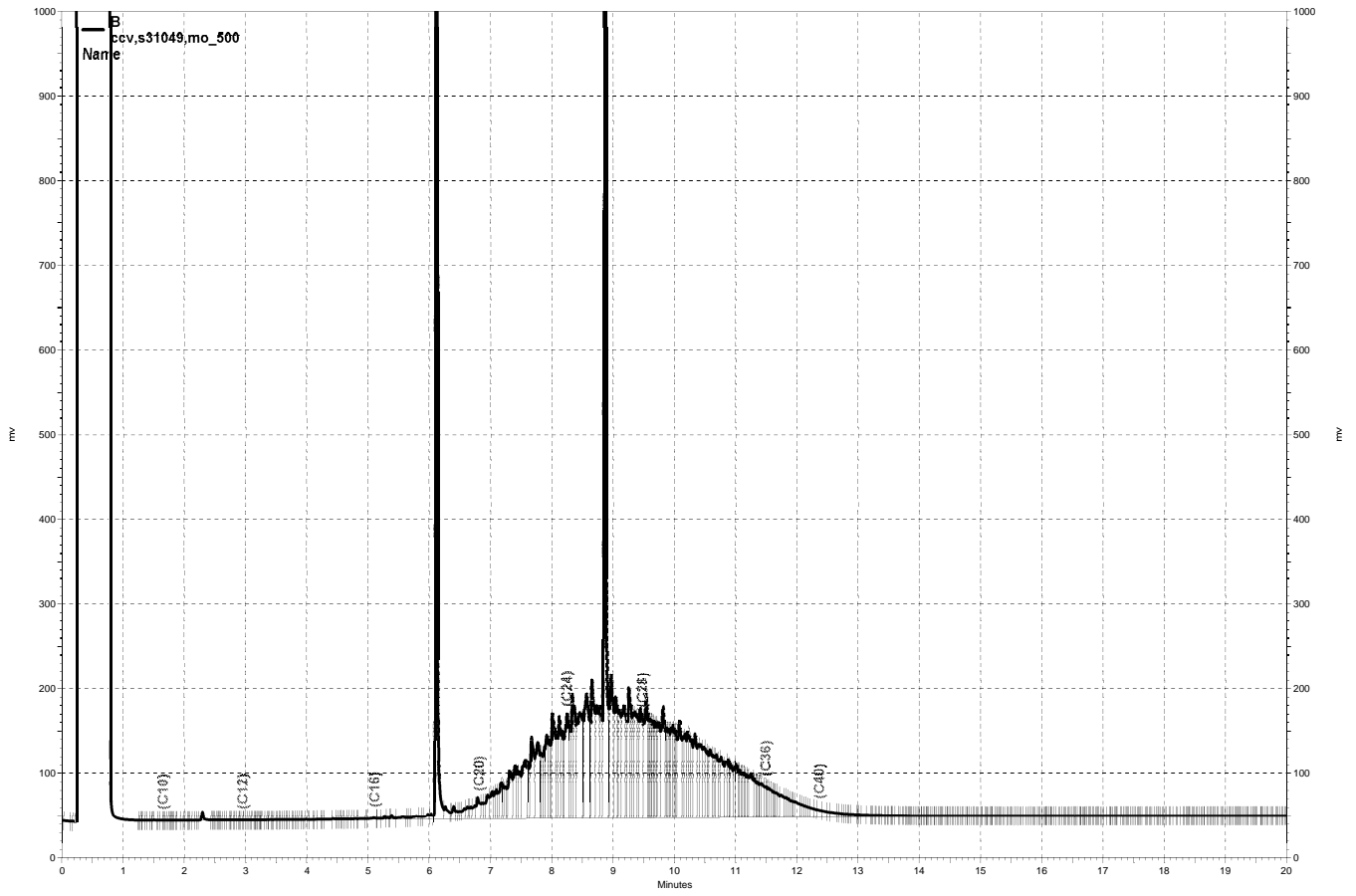
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Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-9 (2-3)	Diln Fac:	0.8865
Lab ID:	283192-021	Batch#:	241214
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/10/16

Analyte	Result	RL
Freon 12	ND	8.9
Chloromethane	ND	8.9
Vinyl Chloride	ND	8.9
Bromomethane	ND	8.9
Chloroethane	ND	8.9
Trichlorofluoromethane	ND	4.4
Acetone	ND	18
Freon 113	ND	4.4
1,1-Dichloroethene	ND	4.4
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.4
MTBE	ND	4.4
trans-1,2-Dichloroethene	ND	4.4
Vinyl Acetate	ND	44
1,1-Dichloroethane	ND	4.4
2-Butanone	ND	8.9
cis-1,2-Dichloroethene	ND	4.4
2,2-Dichloropropane	ND	4.4
Chloroform	ND	4.4
Bromochloromethane	ND	4.4
1,1,1-Trichloroethane	ND	4.4
1,1-Dichloropropene	ND	4.4
Carbon Tetrachloride	ND	4.4
1,2-Dichloroethane	ND	4.4
Benzene	ND	4.4
Trichloroethene	ND	4.4
1,2-Dichloropropane	ND	4.4
Bromodichloromethane	ND	4.4
Dibromomethane	ND	4.4
4-Methyl-2-Pentanone	ND	8.9
cis-1,3-Dichloropropene	ND	4.4
Toluene	ND	4.4
trans-1,3-Dichloropropene	ND	4.4
1,1,2-Trichloroethane	ND	4.4
2-Hexanone	ND	8.9
1,3-Dichloropropane	ND	4.4
Tetrachloroethene	ND	4.4

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-9 (2-3)	Diln Fac:	0.8865
Lab ID:	283192-021	Batch#:	241214
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/10/16

Analyte	Result	RL
Dibromochloromethane	ND	4.4
1,2-Dibromoethane	ND	4.4
Chlorobenzene	ND	4.4
1,1,1,2-Tetrachloroethane	ND	4.4
Ethylbenzene	ND	4.4
m,p-Xylenes	ND	4.4
o-Xylene	ND	4.4
Styrene	ND	4.4
Bromoform	ND	4.4
Isopropylbenzene	ND	4.4
1,1,2,2-Tetrachloroethane	ND	4.4
1,2,3-Trichloropropane	ND	4.4
Propylbenzene	ND	4.4
Bromobenzene	ND	4.4
1,3,5-Trimethylbenzene	ND	4.4
2-Chlorotoluene	ND	4.4
4-Chlorotoluene	ND	4.4
tert-Butylbenzene	ND	4.4
1,2,4-Trimethylbenzene	ND	4.4
sec-Butylbenzene	ND	4.4
para-Isopropyl Toluene	ND	4.4
1,3-Dichlorobenzene	ND	4.4
1,4-Dichlorobenzene	ND	4.4
n-Butylbenzene	ND	4.4
1,2-Dichlorobenzene	ND	4.4
1,2-Dibromo-3-Chloropropane	ND	4.4
1,2,4-Trichlorobenzene	ND	4.4
Hexachlorobutadiene	ND	4.4
Naphthalene	ND	4.4
1,2,3-Trichlorobenzene	ND	4.4

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-134
1,2-Dichloroethane-d4	112	80-138
Toluene-d8	103	80-120
Bromofluorobenzene	105	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-9 (4.5-5)	Diln Fac:	0.9074
Lab ID:	283192-022	Batch#:	241214
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/10/16

Analyte	Result	RL
Freon 12	ND	9.1
Chloromethane	ND	9.1
Vinyl Chloride	ND	9.1
Bromomethane	ND	9.1
Chloroethane	ND	9.1
Trichlorofluoromethane	ND	4.5
Acetone	ND	18
Freon 113	ND	4.5
1,1-Dichloroethene	ND	4.5
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.5
MTBE	ND	4.5
trans-1,2-Dichloroethene	ND	4.5
Vinyl Acetate	ND	45
1,1-Dichloroethane	ND	4.5
2-Butanone	ND	9.1
cis-1,2-Dichloroethene	ND	4.5
2,2-Dichloropropane	ND	4.5
Chloroform	ND	4.5
Bromochloromethane	ND	4.5
1,1,1-Trichloroethane	ND	4.5
1,1-Dichloropropene	ND	4.5
Carbon Tetrachloride	ND	4.5
1,2-Dichloroethane	ND	4.5
Benzene	ND	4.5
Trichloroethene	ND	4.5
1,2-Dichloropropane	ND	4.5
Bromodichloromethane	ND	4.5
Dibromomethane	ND	4.5
4-Methyl-2-Pentanone	ND	9.1
cis-1,3-Dichloropropene	ND	4.5
Toluene	ND	4.5
trans-1,3-Dichloropropene	ND	4.5
1,1,2-Trichloroethane	ND	4.5
2-Hexanone	ND	9.1
1,3-Dichloropropane	ND	4.5
Tetrachloroethene	ND	4.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-9 (4.5-5)	Diln Fac:	0.9074
Lab ID:	283192-022	Batch#:	241214
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/10/16

Analyte	Result	RL
Dibromochloromethane	ND	4.5
1,2-Dibromoethane	ND	4.5
Chlorobenzene	ND	4.5
1,1,1,2-Tetrachloroethane	ND	4.5
Ethylbenzene	ND	4.5
m,p-Xylenes	ND	4.5
o-Xylene	ND	4.5
Styrene	ND	4.5
Bromoform	ND	4.5
Isopropylbenzene	ND	4.5
1,1,2,2-Tetrachloroethane	ND	4.5
1,2,3-Trichloropropane	ND	4.5
Propylbenzene	ND	4.5
Bromobenzene	ND	4.5
1,3,5-Trimethylbenzene	ND	4.5
2-Chlorotoluene	ND	4.5
4-Chlorotoluene	ND	4.5
tert-Butylbenzene	ND	4.5
1,2,4-Trimethylbenzene	ND	4.5
sec-Butylbenzene	ND	4.5
para-Isopropyl Toluene	ND	4.5
1,3-Dichlorobenzene	ND	4.5
1,4-Dichlorobenzene	ND	4.5
n-Butylbenzene	ND	4.5
1,2-Dichlorobenzene	ND	4.5
1,2-Dibromo-3-Chloropropane	ND	4.5
1,2,4-Trichlorobenzene	ND	4.5
Hexachlorobutadiene	ND	4.5
Naphthalene	ND	4.5
1,2,3-Trichlorobenzene	ND	4.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	78-134
1,2-Dichloroethane-d4	110	80-138
Toluene-d8	105	80-120
Bromofluorobenzene	104	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-9 (9.5-10)	Diln Fac:	0.8026
Lab ID:	283192-023	Batch#:	241214
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/10/16

Analyte	Result	RL
Freon 12	ND	8.0
Chloromethane	ND	8.0
Vinyl Chloride	ND	8.0
Bromomethane	ND	8.0
Chloroethane	ND	8.0
Trichlorofluoromethane	ND	4.0
Acetone	ND	16
Freon 113	ND	4.0
1,1-Dichloroethene	ND	4.0
Methylene Chloride	ND	16
Carbon Disulfide	ND	4.0
MTBE	ND	4.0
trans-1,2-Dichloroethene	ND	4.0
Vinyl Acetate	ND	40
1,1-Dichloroethane	ND	4.0
2-Butanone	ND	8.0
cis-1,2-Dichloroethene	ND	4.0
2,2-Dichloropropane	ND	4.0
Chloroform	ND	4.0
Bromochloromethane	ND	4.0
1,1,1-Trichloroethane	ND	4.0
1,1-Dichloropropene	ND	4.0
Carbon Tetrachloride	ND	4.0
1,2-Dichloroethane	ND	4.0
Benzene	ND	4.0
Trichloroethene	ND	4.0
1,2-Dichloropropane	ND	4.0
Bromodichloromethane	ND	4.0
Dibromomethane	ND	4.0
4-Methyl-2-Pentanone	ND	8.0
cis-1,3-Dichloropropene	ND	4.0
Toluene	ND	4.0
trans-1,3-Dichloropropene	ND	4.0
1,1,2-Trichloroethane	ND	4.0
2-Hexanone	ND	8.0
1,3-Dichloropropane	ND	4.0
Tetrachloroethene	ND	4.0

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-9 (9.5-10)	Diln Fac:	0.8026
Lab ID:	283192-023	Batch#:	241214
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/10/16

Analyte	Result	RL
Dibromochloromethane	ND	4.0
1,2-Dibromoethane	ND	4.0
Chlorobenzene	ND	4.0
1,1,1,2-Tetrachloroethane	ND	4.0
Ethylbenzene	ND	4.0
m,p-Xylenes	ND	4.0
o-Xylene	ND	4.0
Styrene	ND	4.0
Bromoform	ND	4.0
Isopropylbenzene	ND	4.0
1,1,2,2-Tetrachloroethane	ND	4.0
1,2,3-Trichloropropane	ND	4.0
Propylbenzene	ND	4.0
Bromobenzene	ND	4.0
1,3,5-Trimethylbenzene	ND	4.0
2-Chlorotoluene	ND	4.0
4-Chlorotoluene	ND	4.0
tert-Butylbenzene	ND	4.0
1,2,4-Trimethylbenzene	ND	4.0
sec-Butylbenzene	ND	4.0
para-Isopropyl Toluene	ND	4.0
1,3-Dichlorobenzene	ND	4.0
1,4-Dichlorobenzene	ND	4.0
n-Butylbenzene	ND	4.0
1,2-Dichlorobenzene	ND	4.0
1,2-Dibromo-3-Chloropropane	ND	4.0
1,2,4-Trichlorobenzene	ND	4.0
Hexachlorobutadiene	ND	4.0
Naphthalene	ND	4.0
1,2,3-Trichlorobenzene	ND	4.0

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-134
1,2-Dichloroethane-d4	112	80-138
Toluene-d8	104	80-120
Bromofluorobenzene	105	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-9 (13-13.5)	Diln Fac:	1,000
Lab ID:	283192-024	Batch#:	241344
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Freon 12	ND	10,000
Chloromethane	ND	10,000
Vinyl Chloride	ND	10,000
Bromomethane	ND	10,000
Chloroethane	ND	10,000
Trichlorofluoromethane	ND	5,000
Acetone	ND	20,000
Freon 113	ND	5,000
1,1-Dichloroethene	ND	5,000
Methylene Chloride	ND	20,000
Carbon Disulfide	ND	5,000
MTBE	ND	5,000
trans-1,2-Dichloroethene	ND	5,000
Vinyl Acetate	ND	50,000
1,1-Dichloroethane	ND	5,000
2-Butanone	ND	10,000
cis-1,2-Dichloroethene	ND	5,000
2,2-Dichloropropane	ND	5,000
Chloroform	ND	5,000
Bromochloromethane	ND	5,000
1,1,1-Trichloroethane	ND	5,000
1,1-Dichloropropene	ND	5,000
Carbon Tetrachloride	ND	5,000
1,2-Dichloroethane	ND	5,000
Benzene	ND	5,000
Trichloroethene	ND	5,000
1,2-Dichloropropane	ND	5,000
Bromodichloromethane	ND	5,000
Dibromomethane	ND	5,000
4-Methyl-2-Pentanone	ND	10,000
cis-1,3-Dichloropropene	ND	5,000
Toluene	ND	5,000
trans-1,3-Dichloropropene	ND	5,000
1,1,2-Trichloroethane	ND	5,000
2-Hexanone	ND	10,000
1,3-Dichloropropane	ND	5,000
Tetrachloroethene	ND	5,000
Dibromochloromethane	ND	5,000
1,2-Dibromoethane	ND	5,000
Chlorobenzene	ND	5,000
1,1,1,2-Tetrachloroethane	ND	5,000
Ethylbenzene	ND	5,000
m,p-Xylenes	ND	5,000
o-Xylene	ND	5,000
Styrene	ND	5,000
Bromoform	ND	5,000
Isopropylbenzene	8,900	5,000
1,1,2,2-Tetrachloroethane	ND	5,000
1,2,3-Trichloropropane	ND	5,000
Propylbenzene	50,000	5,000
Bromobenzene	ND	5,000
1,3,5-Trimethylbenzene	ND	5,000
2-Chlorotoluene	ND	5,000

DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-9 (13-13.5)	Diln Fac:	1,000
Lab ID:	283192-024	Batch#:	241344
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
4-Chlorotoluene	ND	5,000
tert-Butylbenzene	ND	5,000
1,2,4-Trimethylbenzene	ND	5,000
sec-Butylbenzene	7,000	5,000
para-Isopropyl Toluene	ND	5,000
1,3-Dichlorobenzene	ND	5,000
1,4-Dichlorobenzene	ND	5,000
n-Butylbenzene	28,000	5,000
1,2-Dichlorobenzene	ND	5,000
1,2-Dibromo-3-Chloropropane	ND	5,000
1,2,4-Trichlorobenzene	ND	5,000
Hexachlorobutadiene	ND	5,000
Naphthalene	13,000	5,000
1,2,3-Trichlorobenzene	ND	5,000

Surrogate	%REC	Limits
Dibromofluoromethane	94	78-134
1,2-Dichloroethane-d4	106	80-138
Toluene-d8	110	80-120
Bromofluorobenzene	105	78-123
Trifluorotoluene (MeOH)	DO	52-147

DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-8 (2-3)	Diln Fac:	0.9634
Lab ID:	283192-025	Batch#:	241214
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/10/16

Analyte	Result	RL
Freon 12	ND	9.6
Chloromethane	ND	9.6
Vinyl Chloride	ND	9.6
Bromomethane	ND	9.6
Chloroethane	ND	9.6
Trichlorofluoromethane	ND	4.8
Acetone	23	19
Freon 113	ND	4.8
1,1-Dichloroethene	ND	4.8
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.8
MTBE	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
Vinyl Acetate	ND	48
1,1-Dichloroethane	ND	4.8
2-Butanone	ND	9.6
cis-1,2-Dichloroethene	ND	4.8
2,2-Dichloropropane	ND	4.8
Chloroform	ND	4.8
Bromochloromethane	ND	4.8
1,1,1-Trichloroethane	ND	4.8
1,1-Dichloropropene	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
Dibromomethane	ND	4.8
4-Methyl-2-Pentanone	ND	9.6
cis-1,3-Dichloropropene	ND	4.8
Toluene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
2-Hexanone	ND	9.6
1,3-Dichloropropane	ND	4.8
Tetrachloroethene	ND	4.8

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-8 (2-3)	Diln Fac:	0.9634
Lab ID:	283192-025	Batch#:	241214
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/10/16

Analyte	Result	RL
Dibromochloromethane	ND	4.8
1,2-Dibromoethane	ND	4.8
Chlorobenzene	ND	4.8
1,1,1,2-Tetrachloroethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Styrene	ND	4.8
Bromoform	ND	4.8
Isopropylbenzene	ND	4.8
1,1,2,2-Tetrachloroethane	ND	4.8
1,2,3-Trichloropropane	ND	4.8
Propylbenzene	ND	4.8
Bromobenzene	ND	4.8
1,3,5-Trimethylbenzene	ND	4.8
2-Chlorotoluene	ND	4.8
4-Chlorotoluene	ND	4.8
tert-Butylbenzene	ND	4.8
1,2,4-Trimethylbenzene	ND	4.8
sec-Butylbenzene	ND	4.8
para-Isopropyl Toluene	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
n-Butylbenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8
1,2-Dibromo-3-Chloropropane	ND	4.8
1,2,4-Trichlorobenzene	ND	4.8
Hexachlorobutadiene	ND	4.8
Naphthalene	ND	4.8
1,2,3-Trichlorobenzene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	98	78-134
1,2-Dichloroethane-d4	111	80-138
Toluene-d8	105	80-120
Bromofluorobenzene	107	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-8 (4-5)	Diln Fac:	0.9452
Lab ID:	283192-026	Batch#:	241214
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/10/16

Analyte	Result	RL
Freon 12	ND	9.5
Chloromethane	ND	9.5
Vinyl Chloride	ND	9.5
Bromomethane	ND	9.5
Chloroethane	ND	9.5
Trichlorofluoromethane	ND	4.7
Acetone	ND	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.5
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.5
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.5
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-8 (4-5)	Diln Fac:	0.9452
Lab ID:	283192-026	Batch#:	241214
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/10/16

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-134
1,2-Dichloroethane-d4	110	80-138
Toluene-d8	104	80-120
Bromofluorobenzene	106	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-8 (9-10)	Diln Fac:	0.9524
Lab ID:	283192-027	Batch#:	241215
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/10/16

Analyte	Result	RL
Freon 12	ND	9.5
Chloromethane	ND	9.5
Vinyl Chloride	ND	9.5
Bromomethane	ND	9.5
Chloroethane	ND	9.5
Trichlorofluoromethane	ND	4.8
Acetone	ND	19
Freon 113	ND	4.8
1,1-Dichloroethene	ND	4.8
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.8
MTBE	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
Vinyl Acetate	ND	48
1,1-Dichloroethane	ND	4.8
2-Butanone	ND	9.5
cis-1,2-Dichloroethene	ND	4.8
2,2-Dichloropropane	ND	4.8
Chloroform	ND	4.8
Bromochloromethane	ND	4.8
1,1,1-Trichloroethane	ND	4.8
1,1-Dichloropropene	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
Dibromomethane	ND	4.8
4-Methyl-2-Pentanone	ND	9.5
cis-1,3-Dichloropropene	ND	4.8
Toluene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
2-Hexanone	ND	9.5
1,3-Dichloropropane	ND	4.8
Tetrachloroethene	ND	4.8

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-8 (9-10)	Diln Fac:	0.9524
Lab ID:	283192-027	Batch#:	241215
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/10/16

Analyte	Result	RL
Dibromochloromethane	ND	4.8
1,2-Dibromoethane	ND	4.8
Chlorobenzene	ND	4.8
1,1,1,2-Tetrachloroethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Styrene	ND	4.8
Bromoform	ND	4.8
Isopropylbenzene	ND	4.8
1,1,2,2-Tetrachloroethane	ND	4.8
1,2,3-Trichloropropane	ND	4.8
Propylbenzene	ND	4.8
Bromobenzene	ND	4.8
1,3,5-Trimethylbenzene	ND	4.8
2-Chlorotoluene	ND	4.8
4-Chlorotoluene	ND	4.8
tert-Butylbenzene	ND	4.8
1,2,4-Trimethylbenzene	ND	4.8
sec-Butylbenzene	ND	4.8
para-Isopropyl Toluene	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
n-Butylbenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8
1,2-Dibromo-3-Chloropropane	ND	4.8
1,2,4-Trichlorobenzene	ND	4.8
Hexachlorobutadiene	ND	4.8
Naphthalene	ND	4.8
1,2,3-Trichlorobenzene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	110	78-134
1,2-Dichloroethane-d4	106	80-138
Toluene-d8	109	80-120
Bromofluorobenzene	122	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-13 (2-3)	Diln Fac:	0.9940
Lab ID:	283192-030	Batch#:	241263
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/11/16

Analyte	Result	RL
Freon 12	ND	9.9
Chloromethane	ND	9.9
Vinyl Chloride	ND	9.9
Bromomethane	ND	9.9
Chloroethane	ND	9.9
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	9.9
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	9.9
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	9.9
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-13 (2-3)	Diln Fac:	0.9940
Lab ID:	283192-030	Batch#:	241263
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/11/16

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	99	78-134
1,2-Dichloroethane-d4	98	80-138
Toluene-d8	104	80-120
Bromofluorobenzene	114	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-13 (4-5)	Diln Fac:	0.9141
Lab ID:	283192-031	Batch#:	241263
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/11/16

Analyte	Result	RL
Freon 12	ND	9.1
Chloromethane	ND	9.1
Vinyl Chloride	ND	9.1
Bromomethane	ND	9.1
Chloroethane	ND	9.1
Trichlorofluoromethane	ND	4.6
Acetone	ND	18
Freon 113	ND	4.6
1,1-Dichloroethene	ND	4.6
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.6
MTBE	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
Vinyl Acetate	ND	46
1,1-Dichloroethane	ND	4.6
2-Butanone	ND	9.1
cis-1,2-Dichloroethene	ND	4.6
2,2-Dichloropropane	ND	4.6
Chloroform	ND	4.6
Bromochloromethane	ND	4.6
1,1,1-Trichloroethane	ND	4.6
1,1-Dichloropropene	ND	4.6
Carbon Tetrachloride	ND	4.6
1,2-Dichloroethane	ND	4.6
Benzene	ND	4.6
Trichloroethene	ND	4.6
1,2-Dichloropropane	ND	4.6
Bromodichloromethane	ND	4.6
Dibromomethane	ND	4.6
4-Methyl-2-Pentanone	ND	9.1
cis-1,3-Dichloropropene	ND	4.6
Toluene	ND	4.6
trans-1,3-Dichloropropene	ND	4.6
1,1,2-Trichloroethane	ND	4.6
2-Hexanone	ND	9.1
1,3-Dichloropropane	ND	4.6
Tetrachloroethene	ND	4.6

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-13 (4-5)	Diln Fac:	0.9141
Lab ID:	283192-031	Batch#:	241263
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/11/16

Analyte	Result	RL
Dibromochloromethane	ND	4.6
1,2-Dibromoethane	ND	4.6
Chlorobenzene	ND	4.6
1,1,1,2-Tetrachloroethane	ND	4.6
Ethylbenzene	ND	4.6
m,p-Xylenes	ND	4.6
o-Xylene	ND	4.6
Styrene	ND	4.6
Bromoform	ND	4.6
Isopropylbenzene	ND	4.6
1,1,2,2-Tetrachloroethane	ND	4.6
1,2,3-Trichloropropane	ND	4.6
Propylbenzene	ND	4.6
Bromobenzene	ND	4.6
1,3,5-Trimethylbenzene	ND	4.6
2-Chlorotoluene	ND	4.6
4-Chlorotoluene	ND	4.6
tert-Butylbenzene	ND	4.6
1,2,4-Trimethylbenzene	ND	4.6
sec-Butylbenzene	ND	4.6
para-Isopropyl Toluene	ND	4.6
1,3-Dichlorobenzene	ND	4.6
1,4-Dichlorobenzene	ND	4.6
n-Butylbenzene	ND	4.6
1,2-Dichlorobenzene	ND	4.6
1,2-Dibromo-3-Chloropropane	ND	4.6
1,2,4-Trichlorobenzene	ND	4.6
Hexachlorobutadiene	ND	4.6
Naphthalene	ND	4.6
1,2,3-Trichlorobenzene	ND	4.6

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-134
1,2-Dichloroethane-d4	97	80-138
Toluene-d8	105	80-120
Bromofluorobenzene	111	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-13 (9-10)	Diln Fac:	1.042
Lab ID:	283192-032	Batch#:	241263
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/11/16

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.2
Acetone	ND	21
Freon 113	ND	5.2
1,1-Dichloroethene	ND	5.2
Methylene Chloride	ND	21
Carbon Disulfide	ND	5.2
MTBE	ND	5.2
trans-1,2-Dichloroethene	ND	5.2
Vinyl Acetate	ND	52
1,1-Dichloroethane	ND	5.2
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.2
2,2-Dichloropropane	ND	5.2
Chloroform	ND	5.2
Bromochloromethane	ND	5.2
1,1,1-Trichloroethane	ND	5.2
1,1-Dichloropropene	ND	5.2
Carbon Tetrachloride	ND	5.2
1,2-Dichloroethane	ND	5.2
Benzene	ND	5.2
Trichloroethene	ND	5.2
1,2-Dichloropropane	ND	5.2
Bromodichloromethane	ND	5.2
Dibromomethane	ND	5.2
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.2
Toluene	ND	5.2
trans-1,3-Dichloropropene	ND	5.2
1,1,2-Trichloroethane	ND	5.2
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.2
Tetrachloroethene	ND	5.2

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-13 (9-10)	Diln Fac:	1.042
Lab ID:	283192-032	Batch#:	241263
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/11/16

Analyte	Result	RL
Dibromochloromethane	ND	5.2
1,2-Dibromoethane	ND	5.2
Chlorobenzene	ND	5.2
1,1,1,2-Tetrachloroethane	ND	5.2
Ethylbenzene	ND	5.2
m,p-Xylenes	ND	5.2
o-Xylene	ND	5.2
Styrene	ND	5.2
Bromoform	ND	5.2
Isopropylbenzene	ND	5.2
1,1,2,2-Tetrachloroethane	ND	5.2
1,2,3-Trichloropropane	ND	5.2
Propylbenzene	ND	5.2
Bromobenzene	ND	5.2
1,3,5-Trimethylbenzene	ND	5.2
2-Chlorotoluene	ND	5.2
4-Chlorotoluene	ND	5.2
tert-Butylbenzene	ND	5.2
1,2,4-Trimethylbenzene	ND	5.2
sec-Butylbenzene	ND	5.2
para-Isopropyl Toluene	ND	5.2
1,3-Dichlorobenzene	ND	5.2
1,4-Dichlorobenzene	ND	5.2
n-Butylbenzene	ND	5.2
1,2-Dichlorobenzene	ND	5.2
1,2-Dibromo-3-Chloropropane	ND	5.2
1,2,4-Trichlorobenzene	ND	5.2
Hexachlorobutadiene	ND	5.2
Naphthalene	ND	5.2
1,2,3-Trichlorobenzene	ND	5.2

Surrogate	%REC	Limits
Dibromofluoromethane	98	78-134
1,2-Dichloroethane-d4	96	80-138
Toluene-d8	106	80-120
Bromofluorobenzene	113	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	GW-3 (13-13.5)	Diln Fac:	500.0
Lab ID:	283192-038	Batch#:	241344
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Freon 12	ND	5,000
Chloromethane	ND	5,000
Vinyl Chloride	ND	5,000
Bromomethane	ND	5,000
Chloroethane	ND	5,000
Trichlorofluoromethane	ND	2,500
Acetone	ND	10,000
Freon 113	ND	2,500
1,1-Dichloroethene	ND	2,500
Methylene Chloride	ND	10,000
Carbon Disulfide	ND	2,500
MTBE	ND	2,500
trans-1,2-Dichloroethene	ND	2,500
Vinyl Acetate	ND	25,000
1,1-Dichloroethane	ND	2,500
2-Butanone	ND	5,000
cis-1,2-Dichloroethene	ND	2,500
2,2-Dichloropropane	ND	2,500
Chloroform	ND	2,500
Bromochloromethane	ND	2,500
1,1,1-Trichloroethane	ND	2,500
1,1-Dichloropropene	ND	2,500
Carbon Tetrachloride	ND	2,500
1,2-Dichloroethane	ND	2,500
Benzene	ND	2,500
Trichloroethene	ND	2,500
1,2-Dichloropropane	ND	2,500
Bromodichloromethane	ND	2,500
Dibromomethane	ND	2,500
4-Methyl-2-Pentanone	ND	5,000
cis-1,3-Dichloropropene	ND	2,500
Toluene	ND	2,500
trans-1,3-Dichloropropene	ND	2,500
1,1,2-Trichloroethane	ND	2,500
2-Hexanone	ND	5,000
1,3-Dichloropropane	ND	2,500
Tetrachloroethene	ND	2,500

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	GW-3 (13-13.5)	Diln Fac:	500.0
Lab ID:	283192-038	Batch#:	241344
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Dibromochloromethane	ND	2,500
1,2-Dibromoethane	ND	2,500
Chlorobenzene	ND	2,500
1,1,1,2-Tetrachloroethane	ND	2,500
Ethylbenzene	ND	2,500
m,p-Xylenes	ND	2,500
o-Xylene	ND	2,500
Styrene	ND	2,500
Bromoform	ND	2,500
Isopropylbenzene	3,800	2,500
1,1,2,2-Tetrachloroethane	ND	2,500
1,2,3-Trichloropropane	ND	2,500
Propylbenzene	20,000	2,500
Bromobenzene	ND	2,500
1,3,5-Trimethylbenzene	ND	2,500
2-Chlorotoluene	ND	2,500
4-Chlorotoluene	ND	2,500
tert-Butylbenzene	ND	2,500
1,2,4-Trimethylbenzene	ND	2,500
sec-Butylbenzene	2,700	2,500
para-Isopropyl Toluene	ND	2,500
1,3-Dichlorobenzene	ND	2,500
1,4-Dichlorobenzene	ND	2,500
n-Butylbenzene	11,000	2,500
1,2-Dichlorobenzene	ND	2,500
1,2-Dibromo-3-Chloropropane	ND	2,500
1,2,4-Trichlorobenzene	ND	2,500
Hexachlorobutadiene	ND	2,500
Naphthalene	7,200	2,500
1,2,3-Trichlorobenzene	ND	2,500

Surrogate	%REC	Limits
Dibromofluoromethane	97	78-134
1,2-Dichloroethane-d4	109	80-138
Toluene-d8	111	80-120
Bromofluorobenzene	107	78-123
Trifluorotoluene (MeOH)	87	52-147

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-6 (2-3)	Diln Fac:	1.053
Lab ID:	283192-040	Batch#:	241215
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/10/16

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.3
Acetone	ND	21
Freon 113	ND	5.3
1,1-Dichloroethene	ND	5.3
Methylene Chloride	ND	21
Carbon Disulfide	ND	5.3
MTBE	ND	5.3
trans-1,2-Dichloroethene	ND	5.3
Vinyl Acetate	ND	53
1,1-Dichloroethane	ND	5.3
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.3
2,2-Dichloropropane	ND	5.3
Chloroform	ND	5.3
Bromochloromethane	ND	5.3
1,1,1-Trichloroethane	ND	5.3
1,1-Dichloropropene	ND	5.3
Carbon Tetrachloride	ND	5.3
1,2-Dichloroethane	ND	5.3
Benzene	ND	5.3
Trichloroethene	ND	5.3
1,2-Dichloropropane	ND	5.3
Bromodichloromethane	ND	5.3
Dibromomethane	ND	5.3
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.3
Toluene	ND	5.3
trans-1,3-Dichloropropene	ND	5.3
1,1,2-Trichloroethane	ND	5.3
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.3
Tetrachloroethene	ND	5.3

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-6 (2-3)	Diln Fac:	1.053
Lab ID:	283192-040	Batch#:	241215
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/10/16

Analyte	Result	RL
Dibromochloromethane	ND	5.3
1,2-Dibromoethane	ND	5.3
Chlorobenzene	ND	5.3
1,1,1,2-Tetrachloroethane	ND	5.3
Ethylbenzene	ND	5.3
m,p-Xylenes	ND	5.3
o-Xylene	ND	5.3
Styrene	ND	5.3
Bromoform	ND	5.3
Isopropylbenzene	ND	5.3
1,1,2,2-Tetrachloroethane	ND	5.3
1,2,3-Trichloropropane	ND	5.3
Propylbenzene	ND	5.3
Bromobenzene	ND	5.3
1,3,5-Trimethylbenzene	ND	5.3
2-Chlorotoluene	ND	5.3
4-Chlorotoluene	ND	5.3
tert-Butylbenzene	ND	5.3
1,2,4-Trimethylbenzene	ND	5.3
sec-Butylbenzene	ND	5.3
para-Isopropyl Toluene	ND	5.3
1,3-Dichlorobenzene	ND	5.3
1,4-Dichlorobenzene	ND	5.3
n-Butylbenzene	ND	5.3
1,2-Dichlorobenzene	ND	5.3
1,2-Dibromo-3-Chloropropane	ND	5.3
1,2,4-Trichlorobenzene	ND	5.3
Hexachlorobutadiene	ND	5.3
Naphthalene	ND	5.3
1,2,3-Trichlorobenzene	ND	5.3

Surrogate	%REC	Limits
Dibromofluoromethane	110	78-134
1,2-Dichloroethane-d4	103	80-138
Toluene-d8	111	80-120
Bromofluorobenzene	121	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-6 (4-5)	Diln Fac:	0.9901
Lab ID:	283192-041	Batch#:	241263
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/11/16

Analyte	Result	RL
Freon 12	ND	9.9
Chloromethane	ND	9.9
Vinyl Chloride	ND	9.9
Bromomethane	ND	9.9
Chloroethane	ND	9.9
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	9.9
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	9.9
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	9.9
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-6 (4-5)	Diln Fac:	0.9901
Lab ID:	283192-041	Batch#:	241263
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/11/16

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	101	78-134
1,2-Dichloroethane-d4	101	80-138
Toluene-d8	104	80-120
Bromofluorobenzene	113	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-6 (9-10)	Basis:	as received
Lab ID:	283192-042	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	8.3	0.8264	241215	11/10/16
Chloromethane	ND	8.3	0.8264	241215	11/10/16
Vinyl Chloride	ND	8.3	0.8264	241215	11/10/16
Bromomethane	ND	8.3	0.8264	241215	11/10/16
Chloroethane	ND	8.3	0.8264	241215	11/10/16
Trichlorofluoromethane	ND	4.1	0.8264	241215	11/10/16
Acetone	ND	15	0.7692	241263	11/11/16
Freon 113	ND	4.1	0.8264	241215	11/10/16
1,1-Dichloroethene	ND	4.1	0.8264	241215	11/10/16
Methylene Chloride	ND	17	0.8264	241215	11/10/16
Carbon Disulfide	ND	4.1	0.8264	241215	11/10/16
MTBE	ND	4.1	0.8264	241215	11/10/16
trans-1,2-Dichloroethene	ND	4.1	0.8264	241215	11/10/16
Vinyl Acetate	ND	41	0.8264	241215	11/10/16
1,1-Dichloroethane	ND	4.1	0.8264	241215	11/10/16
2-Butanone	ND	8.3	0.8264	241215	11/10/16
cis-1,2-Dichloroethene	ND	4.1	0.8264	241215	11/10/16
2,2-Dichloropropane	ND	4.1	0.8264	241215	11/10/16
Chloroform	ND	4.1	0.8264	241215	11/10/16
Bromochloromethane	ND	4.1	0.8264	241215	11/10/16
1,1,1-Trichloroethane	ND	4.1	0.8264	241215	11/10/16
1,1-Dichloropropene	ND	4.1	0.8264	241215	11/10/16
Carbon Tetrachloride	ND	4.1	0.8264	241215	11/10/16
1,2-Dichloroethane	ND	4.1	0.8264	241215	11/10/16
Benzene	ND	4.1	0.8264	241215	11/10/16
Trichloroethene	ND	4.1	0.8264	241215	11/10/16
1,2-Dichloropropane	ND	4.1	0.8264	241215	11/10/16
Bromodichloromethane	ND	4.1	0.8264	241215	11/10/16
Dibromomethane	ND	4.1	0.8264	241215	11/10/16
4-Methyl-2-Pentanone	ND	8.3	0.8264	241215	11/10/16
cis-1,3-Dichloropropene	ND	4.1	0.8264	241215	11/10/16
Toluene	ND	4.1	0.8264	241215	11/10/16
trans-1,3-Dichloropropene	ND	4.1	0.8264	241215	11/10/16
1,1,2-Trichloroethane	ND	4.1	0.8264	241215	11/10/16
2-Hexanone	8.7	8.3	0.8264	241215	11/10/16
1,3-Dichloropropane	ND	4.1	0.8264	241215	11/10/16
Tetrachloroethene	ND	4.1	0.8264	241215	11/10/16
Dibromochloromethane	ND	4.1	0.8264	241215	11/10/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-6 (9-10)	Basis:	as received
Lab ID:	283192-042	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,2-Dibromoethane	ND	4.1	0.8264	241215	11/10/16
Chlorobenzene	ND	4.1	0.8264	241215	11/10/16
1,1,1,2-Tetrachloroethane	ND	4.1	0.8264	241215	11/10/16
Ethylbenzene	ND	4.1	0.8264	241215	11/10/16
m,p-Xylenes	ND	4.1	0.8264	241215	11/10/16
o-Xylene	ND	4.1	0.8264	241215	11/10/16
Styrene	ND	4.1	0.8264	241215	11/10/16
Bromoform	ND	4.1	0.8264	241215	11/10/16
Isopropylbenzene	ND	4.1	0.8264	241215	11/10/16
1,1,2,2-Tetrachloroethane	ND	4.1	0.8264	241215	11/10/16
1,2,3-Trichloropropane	ND	4.1	0.8264	241215	11/10/16
Propylbenzene	ND	4.1	0.8264	241215	11/10/16
Bromobenzene	ND	4.1	0.8264	241215	11/10/16
1,3,5-Trimethylbenzene	ND	4.1	0.8264	241215	11/10/16
2-Chlorotoluene	ND	4.1	0.8264	241215	11/10/16
4-Chlorotoluene	ND	4.1	0.8264	241215	11/10/16
tert-Butylbenzene	ND	4.1	0.8264	241215	11/10/16
1,2,4-Trimethylbenzene	ND	4.1	0.8264	241215	11/10/16
sec-Butylbenzene	6.7	4.1	0.8264	241215	11/10/16
para-Isopropyl Toluene	ND	4.1	0.8264	241215	11/10/16
1,3-Dichlorobenzene	ND	4.1	0.8264	241215	11/10/16
1,4-Dichlorobenzene	ND	4.1	0.8264	241215	11/10/16
n-Butylbenzene	ND	4.1	0.8264	241215	11/10/16
1,2-Dichlorobenzene	ND	4.1	0.8264	241215	11/10/16
1,2-Dibromo-3-Chloropropane	ND	4.1	0.8264	241215	11/10/16
1,2,4-Trichlorobenzene	ND	4.1	0.8264	241215	11/10/16
Hexachlorobutadiene	ND	4.1	0.8264	241215	11/10/16
Naphthalene	ND	4.1	0.8264	241215	11/10/16
1,2,3-Trichlorobenzene	ND	4.1	0.8264	241215	11/10/16

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	110	78-134	0.8264	241215	11/10/16
1,2-Dichloroethane-d4	108	80-138	0.8264	241215	11/10/16
Toluene-d8	108	80-120	0.8264	241215	11/10/16
Bromofluorobenzene	120	78-123	0.8264	241215	11/10/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-17 (0-1)	Basis:	as received
Lab ID:	283192-044	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	12	1.229	241215	11/10/16
Chloromethane	ND	12	1.229	241215	11/10/16
Vinyl Chloride	ND	12	1.229	241215	11/10/16
Bromomethane	ND	12	1.229	241215	11/10/16
Chloroethane	ND	12	1.229	241215	11/10/16
Trichlorofluoromethane	ND	6.1	1.229	241215	11/10/16
Acetone	ND	18	0.8897	241300	11/11/16
Freon 113	ND	6.1	1.229	241215	11/10/16
1,1-Dichloroethene	ND	6.1	1.229	241215	11/10/16
Methylene Chloride	ND	25	1.229	241215	11/10/16
Carbon Disulfide	ND	6.1	1.229	241215	11/10/16
MTBE	ND	6.1	1.229	241215	11/10/16
trans-1,2-Dichloroethene	ND	6.1	1.229	241215	11/10/16
Vinyl Acetate	ND	61	1.229	241215	11/10/16
1,1-Dichloroethane	ND	6.1	1.229	241215	11/10/16
2-Butanone	ND	12	1.229	241215	11/10/16
cis-1,2-Dichloroethene	ND	6.1	1.229	241215	11/10/16
2,2-Dichloropropane	ND	6.1	1.229	241215	11/10/16
Chloroform	ND	6.1	1.229	241215	11/10/16
Bromochloromethane	ND	6.1	1.229	241215	11/10/16
1,1,1-Trichloroethane	ND	6.1	1.229	241215	11/10/16
1,1-Dichloropropene	ND	6.1	1.229	241215	11/10/16
Carbon Tetrachloride	ND	6.1	1.229	241215	11/10/16
1,2-Dichloroethane	ND	6.1	1.229	241215	11/10/16
Benzene	ND	6.1	1.229	241215	11/10/16
Trichloroethene	ND	6.1	1.229	241215	11/10/16
1,2-Dichloropropane	ND	6.1	1.229	241215	11/10/16
Bromodichloromethane	ND	6.1	1.229	241215	11/10/16
Dibromomethane	ND	6.1	1.229	241215	11/10/16
4-Methyl-2-Pentanone	ND	12	1.229	241215	11/10/16
cis-1,3-Dichloropropene	ND	6.1	1.229	241215	11/10/16
Toluene	ND	6.1	1.229	241215	11/10/16
trans-1,3-Dichloropropene	ND	6.1	1.229	241215	11/10/16
1,1,2-Trichloroethane	ND	6.1	1.229	241215	11/10/16
2-Hexanone	ND	12	1.229	241215	11/10/16
1,3-Dichloropropane	ND	6.1	1.229	241215	11/10/16
Tetrachloroethene	ND	6.1	1.229	241215	11/10/16
Dibromochloromethane	ND	6.1	1.229	241215	11/10/16

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-17 (0-1)	Basis:	as received
Lab ID:	283192-044	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,2-Dibromoethane	ND	6.1	1.229	241215	11/10/16
Chlorobenzene	ND	6.1	1.229	241215	11/10/16
1,1,1,2-Tetrachloroethane	ND	6.1	1.229	241215	11/10/16
Ethylbenzene	ND	6.1	1.229	241215	11/10/16
m,p-Xylenes	ND	6.1	1.229	241215	11/10/16
o-Xylene	ND	6.1	1.229	241215	11/10/16
Styrene	ND	6.1	1.229	241215	11/10/16
Bromoform	ND	6.1	1.229	241215	11/10/16
Isopropylbenzene	ND	6.1	1.229	241215	11/10/16
1,1,2,2-Tetrachloroethane	ND	6.1	1.229	241215	11/10/16
1,2,3-Trichloropropane	ND	6.1	1.229	241215	11/10/16
Propylbenzene	ND	6.1	1.229	241215	11/10/16
Bromobenzene	ND	6.1	1.229	241215	11/10/16
1,3,5-Trimethylbenzene	ND	6.1	1.229	241215	11/10/16
2-Chlorotoluene	ND	6.1	1.229	241215	11/10/16
4-Chlorotoluene	ND	6.1	1.229	241215	11/10/16
tert-Butylbenzene	ND	6.1	1.229	241215	11/10/16
1,2,4-Trimethylbenzene	ND	6.1	1.229	241215	11/10/16
sec-Butylbenzene	ND	6.1	1.229	241215	11/10/16
para-Isopropyl Toluene	ND	6.1	1.229	241215	11/10/16
1,3-Dichlorobenzene	ND	6.1	1.229	241215	11/10/16
1,4-Dichlorobenzene	ND	6.1	1.229	241215	11/10/16
n-Butylbenzene	ND	6.1	1.229	241215	11/10/16
1,2-Dichlorobenzene	ND	6.1	1.229	241215	11/10/16
1,2-Dibromo-3-Chloropropane	ND	6.1	1.229	241215	11/10/16
1,2,4-Trichlorobenzene	ND	6.1	1.229	241215	11/10/16
Hexachlorobutadiene	ND	6.1	1.229	241215	11/10/16
Naphthalene	ND	6.1	1.229	241215	11/10/16
1,2,3-Trichlorobenzene	ND	6.1	1.229	241215	11/10/16

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	106	78-134	1.229	241215	11/10/16
1,2-Dichloroethane-d4	100	80-138	1.229	241215	11/10/16
Toluene-d8	110	80-120	1.229	241215	11/10/16
Bromofluorobenzene	118	78-123	1.229	241215	11/10/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-17 (2-3)	Basis:	as received
Lab ID:	283192-045	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	11	1.131	241215	11/10/16
Chloromethane	ND	11	1.131	241215	11/10/16
Vinyl Chloride	ND	11	1.131	241215	11/10/16
Bromomethane	ND	11	1.131	241215	11/10/16
Chloroethane	ND	11	1.131	241215	11/10/16
Trichlorofluoromethane	ND	5.7	1.131	241215	11/10/16
Acetone	ND	21	1.029	241300	11/11/16
Freon 113	ND	5.7	1.131	241215	11/10/16
1,1-Dichloroethene	ND	5.7	1.131	241215	11/10/16
Methylene Chloride	ND	23	1.131	241215	11/10/16
Carbon Disulfide	ND	5.7	1.131	241215	11/10/16
MTBE	ND	5.7	1.131	241215	11/10/16
trans-1,2-Dichloroethene	ND	5.7	1.131	241215	11/10/16
Vinyl Acetate	ND	57	1.131	241215	11/10/16
1,1-Dichloroethane	ND	5.7	1.131	241215	11/10/16
2-Butanone	ND	11	1.131	241215	11/10/16
cis-1,2-Dichloroethene	ND	5.7	1.131	241215	11/10/16
2,2-Dichloropropane	ND	5.7	1.131	241215	11/10/16
Chloroform	ND	5.7	1.131	241215	11/10/16
Bromochloromethane	ND	5.7	1.131	241215	11/10/16
1,1,1-Trichloroethane	ND	5.7	1.131	241215	11/10/16
1,1-Dichloropropene	ND	5.7	1.131	241215	11/10/16
Carbon Tetrachloride	ND	5.7	1.131	241215	11/10/16
1,2-Dichloroethane	ND	5.7	1.131	241215	11/10/16
Benzene	ND	5.7	1.131	241215	11/10/16
Trichloroethene	ND	5.7	1.131	241215	11/10/16
1,2-Dichloropropane	ND	5.7	1.131	241215	11/10/16
Bromodichloromethane	ND	5.7	1.131	241215	11/10/16
Dibromomethane	ND	5.7	1.131	241215	11/10/16
4-Methyl-2-Pentanone	ND	11	1.131	241215	11/10/16
cis-1,3-Dichloropropene	ND	5.7	1.131	241215	11/10/16
Toluene	ND	5.7	1.131	241215	11/10/16
trans-1,3-Dichloropropene	ND	5.7	1.131	241215	11/10/16
1,1,2-Trichloroethane	ND	5.7	1.131	241215	11/10/16
2-Hexanone	ND	11	1.131	241215	11/10/16
1,3-Dichloropropane	ND	5.7	1.131	241215	11/10/16
Tetrachloroethene	ND	5.7	1.131	241215	11/10/16
Dibromochloromethane	ND	5.7	1.131	241215	11/10/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-17 (2-3)	Basis:	as received
Lab ID:	283192-045	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,2-Dibromoethane	ND	5.7	1.131	241215	11/10/16
Chlorobenzene	ND	5.7	1.131	241215	11/10/16
1,1,1,2-Tetrachloroethane	ND	5.7	1.131	241215	11/10/16
Ethylbenzene	ND	5.7	1.131	241215	11/10/16
m,p-Xylenes	ND	5.7	1.131	241215	11/10/16
o-Xylene	ND	5.7	1.131	241215	11/10/16
Styrene	ND	5.7	1.131	241215	11/10/16
Bromoform	ND	5.7	1.131	241215	11/10/16
Isopropylbenzene	ND	5.7	1.131	241215	11/10/16
1,1,2,2-Tetrachloroethane	ND	5.7	1.131	241215	11/10/16
1,2,3-Trichloropropane	ND	5.7	1.131	241215	11/10/16
Propylbenzene	ND	5.7	1.131	241215	11/10/16
Bromobenzene	ND	5.7	1.131	241215	11/10/16
1,3,5-Trimethylbenzene	ND	5.7	1.131	241215	11/10/16
2-Chlorotoluene	ND	5.7	1.131	241215	11/10/16
4-Chlorotoluene	ND	5.7	1.131	241215	11/10/16
tert-Butylbenzene	ND	5.7	1.131	241215	11/10/16
1,2,4-Trimethylbenzene	ND	5.7	1.131	241215	11/10/16
sec-Butylbenzene	ND	5.7	1.131	241215	11/10/16
para-Isopropyl Toluene	ND	5.7	1.131	241215	11/10/16
1,3-Dichlorobenzene	ND	5.7	1.131	241215	11/10/16
1,4-Dichlorobenzene	ND	5.7	1.131	241215	11/10/16
n-Butylbenzene	ND	5.7	1.131	241215	11/10/16
1,2-Dichlorobenzene	ND	5.7	1.131	241215	11/10/16
1,2-Dibromo-3-Chloropropane	ND	5.7	1.131	241215	11/10/16
1,2,4-Trichlorobenzene	ND	5.7	1.131	241215	11/10/16
Hexachlorobutadiene	ND	5.7	1.131	241215	11/10/16
Naphthalene	ND	5.7	1.131	241215	11/10/16
1,2,3-Trichlorobenzene	ND	5.7	1.131	241215	11/10/16

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	106	78-134	1.131	241215	11/10/16
1,2-Dichloroethane-d4	102	80-138	1.131	241215	11/10/16
Toluene-d8	109	80-120	1.131	241215	11/10/16
Bromofluorobenzene	120	78-123	1.131	241215	11/10/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-17 (4-5)	Basis:	as received
Lab ID:	283192-046	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	8.7	0.8651	241215	11/10/16
Chloromethane	ND	8.7	0.8651	241215	11/10/16
Vinyl Chloride	ND	8.7	0.8651	241215	11/10/16
Bromomethane	ND	8.7	0.8651	241215	11/10/16
Chloroethane	ND	8.7	0.8651	241215	11/10/16
Trichlorofluoromethane	ND	4.3	0.8651	241215	11/10/16
Acetone	ND	20	0.9980	241300	11/11/16
Freon 113	ND	4.3	0.8651	241215	11/10/16
1,1-Dichloroethene	ND	4.3	0.8651	241215	11/10/16
Methylene Chloride	ND	17	0.8651	241215	11/10/16
Carbon Disulfide	ND	4.3	0.8651	241215	11/10/16
MTBE	ND	4.3	0.8651	241215	11/10/16
trans-1,2-Dichloroethene	ND	4.3	0.8651	241215	11/10/16
Vinyl Acetate	ND	43	0.8651	241215	11/10/16
1,1-Dichloroethane	ND	4.3	0.8651	241215	11/10/16
2-Butanone	ND	8.7	0.8651	241215	11/10/16
cis-1,2-Dichloroethene	ND	4.3	0.8651	241215	11/10/16
2,2-Dichloropropane	ND	4.3	0.8651	241215	11/10/16
Chloroform	ND	4.3	0.8651	241215	11/10/16
Bromochloromethane	ND	4.3	0.8651	241215	11/10/16
1,1,1-Trichloroethane	ND	4.3	0.8651	241215	11/10/16
1,1-Dichloropropene	ND	4.3	0.8651	241215	11/10/16
Carbon Tetrachloride	ND	4.3	0.8651	241215	11/10/16
1,2-Dichloroethane	ND	4.3	0.8651	241215	11/10/16
Benzene	ND	4.3	0.8651	241215	11/10/16
Trichloroethene	ND	4.3	0.8651	241215	11/10/16
1,2-Dichloropropane	ND	4.3	0.8651	241215	11/10/16
Bromodichloromethane	ND	4.3	0.8651	241215	11/10/16
Dibromomethane	ND	4.3	0.8651	241215	11/10/16
4-Methyl-2-Pentanone	ND	8.7	0.8651	241215	11/10/16
cis-1,3-Dichloropropene	ND	4.3	0.8651	241215	11/10/16
Toluene	ND	4.3	0.8651	241215	11/10/16
trans-1,3-Dichloropropene	ND	4.3	0.8651	241215	11/10/16
1,1,2-Trichloroethane	ND	4.3	0.8651	241215	11/10/16
2-Hexanone	ND	8.7	0.8651	241215	11/10/16
1,3-Dichloropropane	ND	4.3	0.8651	241215	11/10/16
Tetrachloroethene	ND	4.3	0.8651	241215	11/10/16
Dibromochloromethane	ND	4.3	0.8651	241215	11/10/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-17 (4-5)	Basis:	as received
Lab ID:	283192-046	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,2-Dibromoethane	ND	4.3	0.8651	241215	11/10/16
Chlorobenzene	ND	4.3	0.8651	241215	11/10/16
1,1,1,2-Tetrachloroethane	ND	4.3	0.8651	241215	11/10/16
Ethylbenzene	ND	4.3	0.8651	241215	11/10/16
m,p-Xylenes	ND	4.3	0.8651	241215	11/10/16
o-Xylene	ND	4.3	0.8651	241215	11/10/16
Styrene	ND	4.3	0.8651	241215	11/10/16
Bromoform	ND	4.3	0.8651	241215	11/10/16
Isopropylbenzene	ND	4.3	0.8651	241215	11/10/16
1,1,2,2-Tetrachloroethane	ND	4.3	0.8651	241215	11/10/16
1,2,3-Trichloropropane	ND	4.3	0.8651	241215	11/10/16
Propylbenzene	ND	4.3	0.8651	241215	11/10/16
Bromobenzene	ND	4.3	0.8651	241215	11/10/16
1,3,5-Trimethylbenzene	ND	4.3	0.8651	241215	11/10/16
2-Chlorotoluene	ND	4.3	0.8651	241215	11/10/16
4-Chlorotoluene	ND	4.3	0.8651	241215	11/10/16
tert-Butylbenzene	ND	4.3	0.8651	241215	11/10/16
1,2,4-Trimethylbenzene	ND	4.3	0.8651	241215	11/10/16
sec-Butylbenzene	ND	4.3	0.8651	241215	11/10/16
para-Isopropyl Toluene	ND	4.3	0.8651	241215	11/10/16
1,3-Dichlorobenzene	ND	4.3	0.8651	241215	11/10/16
1,4-Dichlorobenzene	ND	4.3	0.8651	241215	11/10/16
n-Butylbenzene	ND	4.3	0.8651	241215	11/10/16
1,2-Dichlorobenzene	ND	4.3	0.8651	241215	11/10/16
1,2-Dibromo-3-Chloropropane	ND	4.3	0.8651	241215	11/10/16
1,2,4-Trichlorobenzene	ND	4.3	0.8651	241215	11/10/16
Hexachlorobutadiene	ND	4.3	0.8651	241215	11/10/16
Naphthalene	ND	4.3	0.8651	241215	11/10/16
1,2,3-Trichlorobenzene	ND	4.3	0.8651	241215	11/10/16

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	112	78-134	0.8651	241215	11/10/16
1,2-Dichloroethane-d4	109	80-138	0.8651	241215	11/10/16
Toluene-d8	108	80-120	0.8651	241215	11/10/16
Bromofluorobenzene	119	78-123	0.8651	241215	11/10/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-14 (2-3)	Basis:	as received
Lab ID:	283192-047	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	10	1.040	241215	11/10/16
Chloromethane	ND	10	1.040	241215	11/10/16
Vinyl Chloride	ND	10	1.040	241215	11/10/16
Bromomethane	ND	10	1.040	241215	11/10/16
Chloroethane	ND	10	1.040	241215	11/10/16
Trichlorofluoromethane	ND	5.2	1.040	241215	11/10/16
Acetone	ND	20	1.006	241300	11/11/16
Freon 113	ND	5.2	1.040	241215	11/10/16
1,1-Dichloroethene	ND	5.2	1.040	241215	11/10/16
Methylene Chloride	ND	21	1.040	241215	11/10/16
Carbon Disulfide	ND	5.2	1.040	241215	11/10/16
MTBE	ND	5.2	1.040	241215	11/10/16
trans-1,2-Dichloroethene	ND	5.2	1.040	241215	11/10/16
Vinyl Acetate	ND	52	1.040	241215	11/10/16
1,1-Dichloroethane	ND	5.2	1.040	241215	11/10/16
2-Butanone	ND	10	1.040	241215	11/10/16
cis-1,2-Dichloroethene	ND	5.2	1.040	241215	11/10/16
2,2-Dichloropropane	ND	5.2	1.040	241215	11/10/16
Chloroform	ND	5.2	1.040	241215	11/10/16
Bromochloromethane	ND	5.2	1.040	241215	11/10/16
1,1,1-Trichloroethane	ND	5.2	1.040	241215	11/10/16
1,1-Dichloropropene	ND	5.2	1.040	241215	11/10/16
Carbon Tetrachloride	ND	5.2	1.040	241215	11/10/16
1,2-Dichloroethane	ND	5.2	1.040	241215	11/10/16
Benzene	ND	5.2	1.040	241215	11/10/16
Trichloroethene	ND	5.2	1.040	241215	11/10/16
1,2-Dichloropropane	ND	5.2	1.040	241215	11/10/16
Bromodichloromethane	ND	5.2	1.040	241215	11/10/16
Dibromomethane	ND	5.2	1.040	241215	11/10/16
4-Methyl-2-Pentanone	ND	10	1.040	241215	11/10/16
cis-1,3-Dichloropropene	ND	5.2	1.040	241215	11/10/16
Toluene	ND	5.2	1.040	241215	11/10/16
trans-1,3-Dichloropropene	ND	5.2	1.040	241215	11/10/16
1,1,2-Trichloroethane	ND	5.2	1.040	241215	11/10/16
2-Hexanone	ND	10	1.040	241215	11/10/16
1,3-Dichloropropane	ND	5.2	1.040	241215	11/10/16
Tetrachloroethene	ND	5.2	1.040	241215	11/10/16
Dibromochloromethane	ND	5.2	1.040	241215	11/10/16

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-14 (2-3)	Basis:	as received
Lab ID:	283192-047	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,2-Dibromoethane	ND	5.2	1.040	241215	11/10/16
Chlorobenzene	ND	5.2	1.040	241215	11/10/16
1,1,1,2-Tetrachloroethane	ND	5.2	1.040	241215	11/10/16
Ethylbenzene	ND	5.2	1.040	241215	11/10/16
m,p-Xylenes	ND	5.2	1.040	241215	11/10/16
o-Xylene	ND	5.2	1.040	241215	11/10/16
Styrene	ND	5.2	1.040	241215	11/10/16
Bromoform	ND	5.2	1.040	241215	11/10/16
Isopropylbenzene	ND	5.2	1.040	241215	11/10/16
1,1,2,2-Tetrachloroethane	ND	5.2	1.040	241215	11/10/16
1,2,3-Trichloropropane	ND	5.2	1.040	241215	11/10/16
Propylbenzene	ND	5.2	1.040	241215	11/10/16
Bromobenzene	ND	5.2	1.040	241215	11/10/16
1,3,5-Trimethylbenzene	ND	5.2	1.040	241215	11/10/16
2-Chlorotoluene	ND	5.2	1.040	241215	11/10/16
4-Chlorotoluene	ND	5.2	1.040	241215	11/10/16
tert-Butylbenzene	ND	5.2	1.040	241215	11/10/16
1,2,4-Trimethylbenzene	ND	5.2	1.040	241215	11/10/16
sec-Butylbenzene	ND	5.2	1.040	241215	11/10/16
para-Isopropyl Toluene	ND	5.2	1.040	241215	11/10/16
1,3-Dichlorobenzene	ND	5.2	1.040	241215	11/10/16
1,4-Dichlorobenzene	ND	5.2	1.040	241215	11/10/16
n-Butylbenzene	ND	5.2	1.040	241215	11/10/16
1,2-Dichlorobenzene	ND	5.2	1.040	241215	11/10/16
1,2-Dibromo-3-Chloropropane	ND	5.2	1.040	241215	11/10/16
1,2,4-Trichlorobenzene	ND	5.2	1.040	241215	11/10/16
Hexachlorobutadiene	ND	5.2	1.040	241215	11/10/16
Naphthalene	ND	5.2	1.040	241215	11/10/16
1,2,3-Trichlorobenzene	ND	5.2	1.040	241215	11/10/16

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	108	78-134	1.040	241215	11/10/16
1,2-Dichloroethane-d4	100	80-138	1.040	241215	11/10/16
Toluene-d8	110	80-120	1.040	241215	11/10/16
Bromofluorobenzene	121	78-123	1.040	241215	11/10/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-14 (4-5)	Basis:	as received
Lab ID:	283192-048	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	9.5	0.9470	241215	11/10/16
Chloromethane	ND	9.5	0.9470	241215	11/10/16
Vinyl Chloride	ND	9.5	0.9470	241215	11/10/16
Bromomethane	ND	9.5	0.9470	241215	11/10/16
Chloroethane	ND	9.5	0.9470	241215	11/10/16
Trichlorofluoromethane	ND	4.7	0.9470	241215	11/10/16
Acetone	ND	17	0.8696	241300	11/11/16
Freon 113	ND	4.7	0.9470	241215	11/10/16
1,1-Dichloroethene	ND	4.7	0.9470	241215	11/10/16
Methylene Chloride	ND	19	0.9470	241215	11/10/16
Carbon Disulfide	ND	4.7	0.9470	241215	11/10/16
MTBE	ND	4.7	0.9470	241215	11/10/16
trans-1,2-Dichloroethene	ND	4.7	0.9470	241215	11/10/16
Vinyl Acetate	ND	47	0.9470	241215	11/10/16
1,1-Dichloroethane	ND	4.7	0.9470	241215	11/10/16
2-Butanone	ND	9.5	0.9470	241215	11/10/16
cis-1,2-Dichloroethene	ND	4.7	0.9470	241215	11/10/16
2,2-Dichloropropane	ND	4.7	0.9470	241215	11/10/16
Chloroform	ND	4.7	0.9470	241215	11/10/16
Bromochloromethane	ND	4.7	0.9470	241215	11/10/16
1,1,1-Trichloroethane	ND	4.7	0.9470	241215	11/10/16
1,1-Dichloropropene	ND	4.7	0.9470	241215	11/10/16
Carbon Tetrachloride	ND	4.7	0.9470	241215	11/10/16
1,2-Dichloroethane	ND	4.7	0.9470	241215	11/10/16
Benzene	ND	4.7	0.9470	241215	11/10/16
Trichloroethene	ND	4.7	0.9470	241215	11/10/16
1,2-Dichloropropane	ND	4.7	0.9470	241215	11/10/16
Bromodichloromethane	ND	4.7	0.9470	241215	11/10/16
Dibromomethane	ND	4.7	0.9470	241215	11/10/16
4-Methyl-2-Pentanone	ND	9.5	0.9470	241215	11/10/16
cis-1,3-Dichloropropene	ND	4.7	0.9470	241215	11/10/16
Toluene	ND	4.7	0.9470	241215	11/10/16
trans-1,3-Dichloropropene	ND	4.7	0.9470	241215	11/10/16
1,1,2-Trichloroethane	ND	4.7	0.9470	241215	11/10/16
2-Hexanone	ND	9.5	0.9470	241215	11/10/16
1,3-Dichloropropane	ND	4.7	0.9470	241215	11/10/16
Tetrachloroethene	ND	4.7	0.9470	241215	11/10/16
Dibromochloromethane	ND	4.7	0.9470	241215	11/10/16

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-14 (4-5)	Basis:	as received
Lab ID:	283192-048	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,2-Dibromoethane	ND	4.7	0.9470	241215	11/10/16
Chlorobenzene	ND	4.7	0.9470	241215	11/10/16
1,1,1,2-Tetrachloroethane	ND	4.7	0.9470	241215	11/10/16
Ethylbenzene	ND	4.7	0.9470	241215	11/10/16
m,p-Xylenes	ND	4.7	0.9470	241215	11/10/16
o-Xylene	ND	4.7	0.9470	241215	11/10/16
Styrene	ND	4.7	0.9470	241215	11/10/16
Bromoform	ND	4.7	0.9470	241215	11/10/16
Isopropylbenzene	ND	4.7	0.9470	241215	11/10/16
1,1,2,2-Tetrachloroethane	ND	4.7	0.9470	241215	11/10/16
1,2,3-Trichloropropane	ND	4.7	0.9470	241215	11/10/16
Propylbenzene	ND	4.7	0.9470	241215	11/10/16
Bromobenzene	ND	4.7	0.9470	241215	11/10/16
1,3,5-Trimethylbenzene	ND	4.7	0.9470	241215	11/10/16
2-Chlorotoluene	ND	4.7	0.9470	241215	11/10/16
4-Chlorotoluene	ND	4.7	0.9470	241215	11/10/16
tert-Butylbenzene	ND	4.7	0.9470	241215	11/10/16
1,2,4-Trimethylbenzene	ND	4.7	0.9470	241215	11/10/16
sec-Butylbenzene	ND	4.7	0.9470	241215	11/10/16
para-Isopropyl Toluene	ND	4.7	0.9470	241215	11/10/16
1,3-Dichlorobenzene	ND	4.7	0.9470	241215	11/10/16
1,4-Dichlorobenzene	ND	4.7	0.9470	241215	11/10/16
n-Butylbenzene	ND	4.7	0.9470	241215	11/10/16
1,2-Dichlorobenzene	ND	4.7	0.9470	241215	11/10/16
1,2-Dibromo-3-Chloropropane	ND	4.7	0.9470	241215	11/10/16
1,2,4-Trichlorobenzene	ND	4.7	0.9470	241215	11/10/16
Hexachlorobutadiene	ND	4.7	0.9470	241215	11/10/16
Naphthalene	ND	4.7	0.9470	241215	11/10/16
1,2,3-Trichlorobenzene	ND	4.7	0.9470	241215	11/10/16

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	111	78-134	0.9470	241215	11/10/16
1,2-Dichloroethane-d4	102	80-138	0.9470	241215	11/10/16
Toluene-d8	110	80-120	0.9470	241215	11/10/16
Bromofluorobenzene	123	78-123	0.9470	241215	11/10/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-14 (6-7)	Basis:	as received
Lab ID:	283192-049	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	8.6	0.8576	241215	11/10/16
Chloromethane	ND	8.6	0.8576	241215	11/10/16
Vinyl Chloride	ND	8.6	0.8576	241215	11/10/16
Bromomethane	ND	8.6	0.8576	241215	11/10/16
Chloroethane	ND	8.6	0.8576	241215	11/10/16
Trichlorofluoromethane	ND	4.3	0.8576	241215	11/10/16
Acetone	ND	16	0.8091	241300	11/11/16
Freon 113	ND	4.3	0.8576	241215	11/10/16
1,1-Dichloroethene	ND	4.3	0.8576	241215	11/10/16
Methylene Chloride	ND	17	0.8576	241215	11/10/16
Carbon Disulfide	ND	4.3	0.8576	241215	11/10/16
MTBE	ND	4.3	0.8576	241215	11/10/16
trans-1,2-Dichloroethene	ND	4.3	0.8576	241215	11/10/16
Vinyl Acetate	ND	43	0.8576	241215	11/10/16
1,1-Dichloroethane	ND	4.3	0.8576	241215	11/10/16
2-Butanone	ND	8.6	0.8576	241215	11/10/16
cis-1,2-Dichloroethene	ND	4.3	0.8576	241215	11/10/16
2,2-Dichloropropane	ND	4.3	0.8576	241215	11/10/16
Chloroform	ND	4.3	0.8576	241215	11/10/16
Bromochloromethane	ND	4.3	0.8576	241215	11/10/16
1,1,1-Trichloroethane	ND	4.3	0.8576	241215	11/10/16
1,1-Dichloropropene	ND	4.3	0.8576	241215	11/10/16
Carbon Tetrachloride	ND	4.3	0.8576	241215	11/10/16
1,2-Dichloroethane	ND	4.3	0.8576	241215	11/10/16
Benzene	ND	4.3	0.8576	241215	11/10/16
Trichloroethene	ND	4.3	0.8576	241215	11/10/16
1,2-Dichloropropane	ND	4.3	0.8576	241215	11/10/16
Bromodichloromethane	ND	4.3	0.8576	241215	11/10/16
Dibromomethane	ND	4.3	0.8576	241215	11/10/16
4-Methyl-2-Pentanone	ND	8.6	0.8576	241215	11/10/16
cis-1,3-Dichloropropene	ND	4.3	0.8576	241215	11/10/16
Toluene	ND	4.3	0.8576	241215	11/10/16
trans-1,3-Dichloropropene	ND	4.3	0.8576	241215	11/10/16
1,1,2-Trichloroethane	ND	4.3	0.8576	241215	11/10/16
2-Hexanone	ND	8.6	0.8576	241215	11/10/16
1,3-Dichloropropane	ND	4.3	0.8576	241215	11/10/16
Tetrachloroethene	ND	4.3	0.8576	241215	11/10/16
Dibromochloromethane	ND	4.3	0.8576	241215	11/10/16

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-14 (6-7)	Basis:	as received
Lab ID:	283192-049	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,2-Dibromoethane	ND	4.3	0.8576	241215	11/10/16
Chlorobenzene	ND	4.3	0.8576	241215	11/10/16
1,1,1,2-Tetrachloroethane	ND	4.3	0.8576	241215	11/10/16
Ethylbenzene	ND	4.3	0.8576	241215	11/10/16
m,p-Xylenes	ND	4.3	0.8576	241215	11/10/16
o-Xylene	ND	4.3	0.8576	241215	11/10/16
Styrene	ND	4.3	0.8576	241215	11/10/16
Bromoform	ND	4.3	0.8576	241215	11/10/16
Isopropylbenzene	ND	4.3	0.8576	241215	11/10/16
1,1,2,2-Tetrachloroethane	ND	4.3	0.8576	241215	11/10/16
1,2,3-Trichloropropane	ND	4.3	0.8576	241215	11/10/16
Propylbenzene	ND	4.3	0.8576	241215	11/10/16
Bromobenzene	ND	4.3	0.8576	241215	11/10/16
1,3,5-Trimethylbenzene	ND	4.3	0.8576	241215	11/10/16
2-Chlorotoluene	ND	4.3	0.8576	241215	11/10/16
4-Chlorotoluene	ND	4.3	0.8576	241215	11/10/16
tert-Butylbenzene	ND	4.3	0.8576	241215	11/10/16
1,2,4-Trimethylbenzene	ND	4.3	0.8576	241215	11/10/16
sec-Butylbenzene	ND	4.3	0.8576	241215	11/10/16
para-Isopropyl Toluene	ND	4.3	0.8576	241215	11/10/16
1,3-Dichlorobenzene	ND	4.3	0.8576	241215	11/10/16
1,4-Dichlorobenzene	ND	4.3	0.8576	241215	11/10/16
n-Butylbenzene	ND	4.3	0.8576	241215	11/10/16
1,2-Dichlorobenzene	ND	4.3	0.8576	241215	11/10/16
1,2-Dibromo-3-Chloropropane	ND	4.3	0.8576	241215	11/10/16
1,2,4-Trichlorobenzene	ND	4.3	0.8576	241215	11/10/16
Hexachlorobutadiene	ND	4.3	0.8576	241215	11/10/16
Naphthalene	ND	4.3	0.8576	241215	11/10/16
1,2,3-Trichlorobenzene	ND	4.3	0.8576	241215	11/10/16

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	112	78-134	0.8576	241215	11/10/16
1,2-Dichloroethane-d4	107	80-138	0.8576	241215	11/10/16
Toluene-d8	110	80-120	0.8576	241215	11/10/16
Bromofluorobenzene	120	78-123	0.8576	241215	11/10/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-14 (9-10)	Basis:	as received
Lab ID:	283192-050	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	8.2	0.8224	241215	11/10/16
Chloromethane	ND	8.2	0.8224	241215	11/10/16
Vinyl Chloride	ND	8.2	0.8224	241215	11/10/16
Bromomethane	ND	8.2	0.8224	241215	11/10/16
Chloroethane	ND	8.2	0.8224	241215	11/10/16
Trichlorofluoromethane	ND	4.1	0.8224	241215	11/10/16
Acetone	ND	16	0.8143	241300	11/11/16
Freon 113	ND	4.1	0.8224	241215	11/10/16
1,1-Dichloroethene	ND	4.1	0.8224	241215	11/10/16
Methylene Chloride	ND	16	0.8224	241215	11/10/16
Carbon Disulfide	ND	4.1	0.8224	241215	11/10/16
MTBE	ND	4.1	0.8224	241215	11/10/16
trans-1,2-Dichloroethene	ND	4.1	0.8224	241215	11/10/16
Vinyl Acetate	ND	41	0.8224	241215	11/10/16
1,1-Dichloroethane	ND	4.1	0.8224	241215	11/10/16
2-Butanone	ND	8.2	0.8224	241215	11/10/16
cis-1,2-Dichloroethene	ND	4.1	0.8224	241215	11/10/16
2,2-Dichloropropane	ND	4.1	0.8224	241215	11/10/16
Chloroform	ND	4.1	0.8224	241215	11/10/16
Bromochloromethane	ND	4.1	0.8224	241215	11/10/16
1,1,1-Trichloroethane	ND	4.1	0.8224	241215	11/10/16
1,1-Dichloropropene	ND	4.1	0.8224	241215	11/10/16
Carbon Tetrachloride	ND	4.1	0.8224	241215	11/10/16
1,2-Dichloroethane	ND	4.1	0.8224	241215	11/10/16
Benzene	ND	4.1	0.8224	241215	11/10/16
Trichloroethene	ND	4.1	0.8224	241215	11/10/16
1,2-Dichloropropane	ND	4.1	0.8224	241215	11/10/16
Bromodichloromethane	ND	4.1	0.8224	241215	11/10/16
Dibromomethane	ND	4.1	0.8224	241215	11/10/16
4-Methyl-2-Pentanone	ND	8.2	0.8224	241215	11/10/16
cis-1,3-Dichloropropene	ND	4.1	0.8224	241215	11/10/16
Toluene	ND	4.1	0.8224	241215	11/10/16
trans-1,3-Dichloropropene	ND	4.1	0.8224	241215	11/10/16
1,1,2-Trichloroethane	ND	4.1	0.8224	241215	11/10/16
2-Hexanone	ND	8.2	0.8224	241215	11/10/16
1,3-Dichloropropane	ND	4.1	0.8224	241215	11/10/16
Tetrachloroethene	ND	4.1	0.8224	241215	11/10/16
Dibromochloromethane	ND	4.1	0.8224	241215	11/10/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-14 (9-10)	Basis:	as received
Lab ID:	283192-050	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,2-Dibromoethane	ND	4.1	0.8224	241215	11/10/16
Chlorobenzene	ND	4.1	0.8224	241215	11/10/16
1,1,1,2-Tetrachloroethane	ND	4.1	0.8224	241215	11/10/16
Ethylbenzene	ND	4.1	0.8224	241215	11/10/16
m,p-Xylenes	ND	4.1	0.8224	241215	11/10/16
o-Xylene	ND	4.1	0.8224	241215	11/10/16
Styrene	ND	4.1	0.8224	241215	11/10/16
Bromoform	ND	4.1	0.8224	241215	11/10/16
Isopropylbenzene	ND	4.1	0.8224	241215	11/10/16
1,1,2,2-Tetrachloroethane	ND	4.1	0.8224	241215	11/10/16
1,2,3-Trichloropropane	ND	4.1	0.8224	241215	11/10/16
Propylbenzene	ND	4.1	0.8224	241215	11/10/16
Bromobenzene	ND	4.1	0.8224	241215	11/10/16
1,3,5-Trimethylbenzene	ND	4.1	0.8224	241215	11/10/16
2-Chlorotoluene	ND	4.1	0.8224	241215	11/10/16
4-Chlorotoluene	ND	4.1	0.8224	241215	11/10/16
tert-Butylbenzene	ND	4.1	0.8224	241215	11/10/16
1,2,4-Trimethylbenzene	ND	4.1	0.8224	241215	11/10/16
sec-Butylbenzene	ND	4.1	0.8224	241215	11/10/16
para-Isopropyl Toluene	ND	4.1	0.8224	241215	11/10/16
1,3-Dichlorobenzene	ND	4.1	0.8224	241215	11/10/16
1,4-Dichlorobenzene	ND	4.1	0.8224	241215	11/10/16
n-Butylbenzene	ND	4.1	0.8224	241215	11/10/16
1,2-Dichlorobenzene	ND	4.1	0.8224	241215	11/10/16
1,2-Dibromo-3-Chloropropane	ND	4.1	0.8224	241215	11/10/16
1,2,4-Trichlorobenzene	ND	4.1	0.8224	241215	11/10/16
Hexachlorobutadiene	ND	4.1	0.8224	241215	11/10/16
Naphthalene	ND	4.1	0.8224	241215	11/10/16
1,2,3-Trichlorobenzene	ND	4.1	0.8224	241215	11/10/16

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	115	78-134	0.8224	241215	11/10/16
1,2-Dichloroethane-d4	108	80-138	0.8224	241215	11/10/16
Toluene-d8	109	80-120	0.8224	241215	11/10/16
Bromofluorobenzene	119	78-123	0.8224	241215	11/10/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-17 (9-10)	Basis:	as received
Lab ID:	283192-053	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	8.9	0.8865	241215	11/10/16
Chloromethane	ND	8.9	0.8865	241215	11/10/16
Vinyl Chloride	ND	8.9	0.8865	241215	11/10/16
Bromomethane	ND	8.9	0.8865	241215	11/10/16
Chloroethane	ND	8.9	0.8865	241215	11/10/16
Trichlorofluoromethane	ND	4.4	0.8865	241215	11/10/16
Acetone	ND	18	0.9242	241300	11/11/16
Freon 113	ND	4.4	0.8865	241215	11/10/16
1,1-Dichloroethene	ND	4.4	0.8865	241215	11/10/16
Methylene Chloride	ND	18	0.8865	241215	11/10/16
Carbon Disulfide	ND	4.4	0.8865	241215	11/10/16
MTBE	ND	4.4	0.8865	241215	11/10/16
trans-1,2-Dichloroethene	ND	4.4	0.8865	241215	11/10/16
Vinyl Acetate	ND	44	0.8865	241215	11/10/16
1,1-Dichloroethane	ND	4.4	0.8865	241215	11/10/16
2-Butanone	ND	8.9	0.8865	241215	11/10/16
cis-1,2-Dichloroethene	ND	4.4	0.8865	241215	11/10/16
2,2-Dichloropropane	ND	4.4	0.8865	241215	11/10/16
Chloroform	ND	4.4	0.8865	241215	11/10/16
Bromochloromethane	ND	4.4	0.8865	241215	11/10/16
1,1,1-Trichloroethane	ND	4.4	0.8865	241215	11/10/16
1,1-Dichloropropene	ND	4.4	0.8865	241215	11/10/16
Carbon Tetrachloride	ND	4.4	0.8865	241215	11/10/16
1,2-Dichloroethane	ND	4.4	0.8865	241215	11/10/16
Benzene	ND	4.4	0.8865	241215	11/10/16
Trichloroethene	ND	4.4	0.8865	241215	11/10/16
1,2-Dichloropropane	ND	4.4	0.8865	241215	11/10/16
Bromodichloromethane	ND	4.4	0.8865	241215	11/10/16
Dibromomethane	ND	4.4	0.8865	241215	11/10/16
4-Methyl-2-Pentanone	ND	8.9	0.8865	241215	11/10/16
cis-1,3-Dichloropropene	ND	4.4	0.8865	241215	11/10/16
Toluene	ND	4.4	0.8865	241215	11/10/16
trans-1,3-Dichloropropene	ND	4.4	0.8865	241215	11/10/16
1,1,2-Trichloroethane	ND	4.4	0.8865	241215	11/10/16
2-Hexanone	ND	8.9	0.8865	241215	11/10/16
1,3-Dichloropropane	ND	4.4	0.8865	241215	11/10/16
Tetrachloroethene	ND	4.4	0.8865	241215	11/10/16
Dibromochloromethane	ND	4.4	0.8865	241215	11/10/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-17 (9-10)	Basis:	as received
Lab ID:	283192-053	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,2-Dibromoethane	ND	4.4	0.8865	241215	11/10/16
Chlorobenzene	ND	4.4	0.8865	241215	11/10/16
1,1,1,2-Tetrachloroethane	ND	4.4	0.8865	241215	11/10/16
Ethylbenzene	ND	4.4	0.8865	241215	11/10/16
m,p-Xylenes	ND	4.4	0.8865	241215	11/10/16
o-Xylene	ND	4.4	0.8865	241215	11/10/16
Styrene	ND	4.4	0.8865	241215	11/10/16
Bromoform	ND	4.4	0.8865	241215	11/10/16
Isopropylbenzene	ND	4.4	0.8865	241215	11/10/16
1,1,2,2-Tetrachloroethane	ND	4.4	0.8865	241215	11/10/16
1,2,3-Trichloropropane	ND	4.4	0.8865	241215	11/10/16
Propylbenzene	ND	4.4	0.8865	241215	11/10/16
Bromobenzene	ND	4.4	0.8865	241215	11/10/16
1,3,5-Trimethylbenzene	ND	4.4	0.8865	241215	11/10/16
2-Chlorotoluene	ND	4.4	0.8865	241215	11/10/16
4-Chlorotoluene	ND	4.4	0.8865	241215	11/10/16
tert-Butylbenzene	ND	4.4	0.8865	241215	11/10/16
1,2,4-Trimethylbenzene	ND	4.4	0.8865	241215	11/10/16
sec-Butylbenzene	ND	4.4	0.8865	241215	11/10/16
para-Isopropyl Toluene	ND	4.4	0.8865	241215	11/10/16
1,3-Dichlorobenzene	ND	4.4	0.8865	241215	11/10/16
1,4-Dichlorobenzene	ND	4.4	0.8865	241215	11/10/16
n-Butylbenzene	ND	4.4	0.8865	241215	11/10/16
1,2-Dichlorobenzene	ND	4.4	0.8865	241215	11/10/16
1,2-Dibromo-3-Chloropropane	ND	4.4	0.8865	241215	11/10/16
1,2,4-Trichlorobenzene	ND	4.4	0.8865	241215	11/10/16
Hexachlorobutadiene	ND	4.4	0.8865	241215	11/10/16
Naphthalene	ND	4.4	0.8865	241215	11/10/16
1,2,3-Trichlorobenzene	ND	4.4	0.8865	241215	11/10/16

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	114	78-134	0.8865	241215	11/10/16
1,2-Dichloroethane-d4	108	80-138	0.8865	241215	11/10/16
Toluene-d8	109	80-120	0.8865	241215	11/10/16
Bromofluorobenzene	120	78-123	0.8865	241215	11/10/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-7 (2-3)	Diln Fac:	0.9452
Lab ID:	283192-056	Batch#:	241263
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/11/16

Analyte	Result	RL
Freon 12	ND	9.5
Chloromethane	ND	9.5
Vinyl Chloride	ND	9.5
Bromomethane	ND	9.5
Chloroethane	ND	9.5
Trichlorofluoromethane	ND	4.7
Acetone	32	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.5
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.5
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.5
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-7 (2-3)	Diln Fac:	0.9452
Lab ID:	283192-056	Batch#:	241263
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/11/16

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	106	78-134
1,2-Dichloroethane-d4	105	80-138
Toluene-d8	106	80-120
Bromofluorobenzene	116	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-7 (4-5)	Diln Fac:	0.8881
Lab ID:	283192-057	Batch#:	241263
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/11/16

Analyte	Result	RL
Freon 12	ND	8.9
Chloromethane	ND	8.9
Vinyl Chloride	ND	8.9
Bromomethane	ND	8.9
Chloroethane	ND	8.9
Trichlorofluoromethane	ND	4.4
Acetone	ND	18
Freon 113	ND	4.4
1,1-Dichloroethene	ND	4.4
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.4
MTBE	ND	4.4
trans-1,2-Dichloroethene	ND	4.4
Vinyl Acetate	ND	44
1,1-Dichloroethane	ND	4.4
2-Butanone	ND	8.9
cis-1,2-Dichloroethene	ND	4.4
2,2-Dichloropropane	ND	4.4
Chloroform	ND	4.4
Bromochloromethane	ND	4.4
1,1,1-Trichloroethane	ND	4.4
1,1-Dichloropropene	ND	4.4
Carbon Tetrachloride	ND	4.4
1,2-Dichloroethane	ND	4.4
Benzene	ND	4.4
Trichloroethene	ND	4.4
1,2-Dichloropropane	ND	4.4
Bromodichloromethane	ND	4.4
Dibromomethane	ND	4.4
4-Methyl-2-Pentanone	ND	8.9
cis-1,3-Dichloropropene	ND	4.4
Toluene	ND	4.4
trans-1,3-Dichloropropene	ND	4.4
1,1,2-Trichloroethane	ND	4.4
2-Hexanone	ND	8.9
1,3-Dichloropropane	ND	4.4
Tetrachloroethene	ND	4.4

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-7 (4-5)	Diln Fac:	0.8881
Lab ID:	283192-057	Batch#:	241263
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/11/16

Analyte	Result	RL
Dibromochloromethane	ND	4.4
1,2-Dibromoethane	ND	4.4
Chlorobenzene	ND	4.4
1,1,1,2-Tetrachloroethane	ND	4.4
Ethylbenzene	ND	4.4
m,p-Xylenes	ND	4.4
o-Xylene	ND	4.4
Styrene	ND	4.4
Bromoform	ND	4.4
Isopropylbenzene	ND	4.4
1,1,2,2-Tetrachloroethane	ND	4.4
1,2,3-Trichloropropane	ND	4.4
Propylbenzene	ND	4.4
Bromobenzene	ND	4.4
1,3,5-Trimethylbenzene	ND	4.4
2-Chlorotoluene	ND	4.4
4-Chlorotoluene	ND	4.4
tert-Butylbenzene	ND	4.4
1,2,4-Trimethylbenzene	ND	4.4
sec-Butylbenzene	ND	4.4
para-Isopropyl Toluene	ND	4.4
1,3-Dichlorobenzene	ND	4.4
1,4-Dichlorobenzene	ND	4.4
n-Butylbenzene	ND	4.4
1,2-Dichlorobenzene	ND	4.4
1,2-Dibromo-3-Chloropropane	ND	4.4
1,2,4-Trichlorobenzene	ND	4.4
Hexachlorobutadiene	ND	4.4
Naphthalene	ND	4.4
1,2,3-Trichlorobenzene	ND	4.4

Surrogate	%REC	Limits
Dibromofluoromethane	108	78-134
1,2-Dichloroethane-d4	109	80-138
Toluene-d8	106	80-120
Bromofluorobenzene	117	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-7 (9-10)	Diln Fac:	0.8913
Lab ID:	283192-058	Batch#:	241263
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/11/16

Analyte	Result	RL
Freon 12	ND	8.9
Chloromethane	ND	8.9
Vinyl Chloride	ND	8.9
Bromomethane	ND	8.9
Chloroethane	ND	8.9
Trichlorofluoromethane	ND	4.5
Acetone	ND	18
Freon 113	ND	4.5
1,1-Dichloroethene	ND	4.5
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.5
MTBE	ND	4.5
trans-1,2-Dichloroethene	ND	4.5
Vinyl Acetate	ND	45
1,1-Dichloroethane	ND	4.5
2-Butanone	ND	8.9
cis-1,2-Dichloroethene	ND	4.5
2,2-Dichloropropane	ND	4.5
Chloroform	ND	4.5
Bromochloromethane	ND	4.5
1,1,1-Trichloroethane	ND	4.5
1,1-Dichloropropene	ND	4.5
Carbon Tetrachloride	ND	4.5
1,2-Dichloroethane	ND	4.5
Benzene	ND	4.5
Trichloroethene	ND	4.5
1,2-Dichloropropane	ND	4.5
Bromodichloromethane	ND	4.5
Dibromomethane	ND	4.5
4-Methyl-2-Pentanone	ND	8.9
cis-1,3-Dichloropropene	ND	4.5
Toluene	ND	4.5
trans-1,3-Dichloropropene	ND	4.5
1,1,2-Trichloroethane	ND	4.5
2-Hexanone	ND	8.9
1,3-Dichloropropane	ND	4.5
Tetrachloroethene	ND	4.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-7 (9-10)	Diln Fac:	0.8913
Lab ID:	283192-058	Batch#:	241263
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/11/16

Analyte	Result	RL
Dibromochloromethane	ND	4.5
1,2-Dibromoethane	ND	4.5
Chlorobenzene	ND	4.5
1,1,1,2-Tetrachloroethane	ND	4.5
Ethylbenzene	ND	4.5
m,p-Xylenes	ND	4.5
o-Xylene	ND	4.5
Styrene	ND	4.5
Bromoform	ND	4.5
Isopropylbenzene	ND	4.5
1,1,2,2-Tetrachloroethane	ND	4.5
1,2,3-Trichloropropane	ND	4.5
Propylbenzene	ND	4.5
Bromobenzene	ND	4.5
1,3,5-Trimethylbenzene	ND	4.5
2-Chlorotoluene	ND	4.5
4-Chlorotoluene	ND	4.5
tert-Butylbenzene	ND	4.5
1,2,4-Trimethylbenzene	ND	4.5
sec-Butylbenzene	ND	4.5
para-Isopropyl Toluene	ND	4.5
1,3-Dichlorobenzene	ND	4.5
1,4-Dichlorobenzene	ND	4.5
n-Butylbenzene	ND	4.5
1,2-Dichlorobenzene	ND	4.5
1,2-Dibromo-3-Chloropropane	ND	4.5
1,2,4-Trichlorobenzene	ND	4.5
Hexachlorobutadiene	ND	4.5
Naphthalene	ND	4.5
1,2,3-Trichlorobenzene	ND	4.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	78-134
1,2-Dichloroethane-d4	109	80-138
Toluene-d8	106	80-120
Bromofluorobenzene	115	78-123

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC859884	Batch#:	241214
Matrix:	Soil	Analyzed:	11/10/16
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	20.70	83	70-134
Benzene	25.00	23.40	94	80-123
Trichloroethene	25.00	21.58	86	80-128
Toluene	25.00	22.84	91	80-120
Chlorobenzene	25.00	21.22	85	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	96	78-134
1,2-Dichloroethane-d4	109	80-138
Toluene-d8	104	80-120
Bromofluorobenzene	100	78-123

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC859885	Batch#:	241214
Matrix:	Soil	Analyzed:	11/10/16
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC859885	Batch#:	241214
Matrix:	Soil	Analyzed:	11/10/16
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	98	78-134
1,2-Dichloroethane-d4	109	80-138
Toluene-d8	105	80-120
Bromofluorobenzene	102	78-123

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	241215
Units:	ug/Kg	Analyzed:	11/10/16
Diln Fac:	1.000		

Type: BS Lab ID: QC859886

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	20.27	81	70-134
Benzene	25.00	21.93	88	80-123
Trichloroethene	25.00	21.15	85	80-128
Toluene	25.00	22.31	89	80-120
Chlorobenzene	25.00	21.86	87	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	111	78-134
1,2-Dichloroethane-d4	107	80-138
Toluene-d8	108	80-120
Bromofluorobenzene	115	78-123

Type: BSD Lab ID: QC859887

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	19.92	80	70-134	2	22
Benzene	25.00	21.65	87	80-123	1	21
Trichloroethene	25.00	20.95	84	80-128	1	23
Toluene	25.00	22.22	89	80-120	0	20
Chlorobenzene	25.00	21.88	88	80-123	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	110	78-134
1,2-Dichloroethane-d4	103	80-138
Toluene-d8	108	80-120
Bromofluorobenzene	115	78-123

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	241215
Units:	ug/Kg	Analyzed:	11/10/16
Diln Fac:	1.000		

Type: BS Lab ID: QC859886

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	20.27	81	70-134
Benzene	25.00	21.93	88	80-123
Trichloroethene	25.00	21.15	85	80-128
Toluene	25.00	22.31	89	80-120
Chlorobenzene	25.00	21.86	87	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	111	78-134
1,2-Dichloroethane-d4	107	80-138
Toluene-d8	108	80-120
Bromofluorobenzene	115	78-123

Type: BSD Lab ID: QC859887

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	19.92	80	70-134	2	22
Benzene	25.00	21.65	87	80-123	1	21
Trichloroethene	25.00	20.95	84	80-128	1	23
Toluene	25.00	22.22	89	80-120	0	20
Chlorobenzene	25.00	21.88	88	80-123	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	110	78-134
1,2-Dichloroethane-d4	103	80-138
Toluene-d8	108	80-120
Bromofluorobenzene	115	78-123

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC859888	Batch#:	241215
Matrix:	Soil	Analyzed:	11/10/16
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC859888	Batch#:	241215
Matrix:	Soil	Analyzed:	11/10/16
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	78-134
1,2-Dichloroethane-d4	101	80-138
Toluene-d8	110	80-120
Bromofluorobenzene	121	78-123

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC859888	Batch#:	241215
Matrix:	Soil	Analyzed:	11/10/16
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC859888	Batch#:	241215
Matrix:	Soil	Analyzed:	11/10/16
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	78-134
1,2-Dichloroethane-d4	101	80-138
Toluene-d8	110	80-120
Bromofluorobenzene	121	78-123

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860094	Batch#:	241263
Matrix:	Soil	Analyzed:	11/11/16
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	20.66	83	70-134
Benzene	25.00	22.13	89	80-123
Trichloroethene	25.00	22.35	89	80-128
Toluene	25.00	23.57	94	80-120
Chlorobenzene	25.00	23.56	94	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-134
1,2-Dichloroethane-d4	98	80-138
Toluene-d8	104	80-120
Bromofluorobenzene	108	78-123

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860095	Batch#:	241263
Matrix:	Soil	Analyzed:	11/11/16
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860095	Batch#:	241263
Matrix:	Soil	Analyzed:	11/11/16
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-134
1,2-Dichloroethane-d4	102	80-138
Toluene-d8	102	80-120
Bromofluorobenzene	111	78-123

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	241263
MSS Lab ID:	283043-001	Sampled:	11/01/16
Matrix:	Soil	Received:	11/04/16
Units:	ug/Kg	Analyzed:	11/11/16
Basis:	as received		

Type: MS Diln Fac: 0.9881
 Lab ID: QC860214

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5567	49.41	35.29	71	56-133
Benzene	<0.4967	49.41	34.72	70	57-120
Trichloroethene	<0.6003	49.41	37.45	76	49-145
Toluene	<0.5339	49.41	38.19	77	51-120
Chlorobenzene	<0.3350	49.41	37.15	75	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	106	78-134
1,2-Dichloroethane-d4	101	80-138
Toluene-d8	106	80-120
Bromofluorobenzene	109	78-123

Type: MSD Diln Fac: 0.9615
 Lab ID: QC860215

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	48.08	36.01	75	56-133	5	46
Benzene	48.08	37.85	79	57-120	11	44
Trichloroethene	48.08	38.74	81	49-145	6	46
Toluene	48.08	39.42	82	51-120	6	47
Chlorobenzene	48.08	38.22	79	47-120	6	50

Surrogate	%REC	Limits
Dibromofluoromethane	105	78-134
1,2-Dichloroethane-d4	104	80-138
Toluene-d8	106	80-120
Bromofluorobenzene	109	78-123

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	241300
Units:	ug/Kg	Analyzed:	11/11/16
Diln Fac:	1.000		

Type: BS Lab ID: QC860265

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	37.50	39.52	105	70-134
Benzene	37.50	37.26	99	80-123
Trichloroethene	37.50	37.95	101	80-128
Toluene	37.50	37.37	100	80-120
Chlorobenzene	37.50	37.22	99	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	108	78-134
1,2-Dichloroethane-d4	104	80-138
Toluene-d8	98	80-120
Bromofluorobenzene	98	78-123

Type: BSD Lab ID: QC860266

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	37.50	40.34	108	70-134	2	22
Benzene	37.50	38.07	102	80-123	2	21
Trichloroethene	37.50	37.88	101	80-128	0	23
Toluene	37.50	36.33	97	80-120	3	20
Chlorobenzene	37.50	36.47	97	80-123	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	109	78-134
1,2-Dichloroethane-d4	100	80-138
Toluene-d8	96	80-120
Bromofluorobenzene	99	78-123

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	241300
Units:	ug/Kg	Analyzed:	11/11/16
Diln Fac:	1.000		

Type: BS Lab ID: QC860265

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	37.50	39.52	105	70-134
Benzene	37.50	37.26	99	80-123
Trichloroethene	37.50	37.95	101	80-128
Toluene	37.50	37.37	100	80-120
Chlorobenzene	37.50	37.22	99	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	108	78-134
1,2-Dichloroethane-d4	104	80-138
Toluene-d8	98	80-120
Bromofluorobenzene	98	78-123

Type: BSD Lab ID: QC860266

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	37.50	40.34	108	70-134	2	22
Benzene	37.50	38.07	102	80-123	2	21
Trichloroethene	37.50	37.88	101	80-128	0	23
Toluene	37.50	36.33	97	80-120	3	20
Chlorobenzene	37.50	36.47	97	80-123	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	109	78-134
1,2-Dichloroethane-d4	100	80-138
Toluene-d8	96	80-120
Bromofluorobenzene	99	78-123

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860267	Batch#:	241300
Matrix:	Soil	Analyzed:	11/11/16
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860267	Batch#:	241300
Matrix:	Soil	Analyzed:	11/11/16
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	116	78-134
1,2-Dichloroethane-d4	104	80-138
Toluene-d8	97	80-120
Bromofluorobenzene	102	78-123

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860267	Batch#:	241300
Matrix:	Soil	Analyzed:	11/11/16
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860267	Batch#:	241300
Matrix:	Soil	Analyzed:	11/11/16
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	116	78-134
1,2-Dichloroethane-d4	104	80-138
Toluene-d8	97	80-120
Bromofluorobenzene	102	78-123

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	241300
MSS Lab ID:	283261-001	Sampled:	11/11/16
Matrix:	Soil	Received:	11/11/16
Units:	ug/Kg	Analyzed:	11/12/16
Basis:	as received		

Type: MS Diln Fac: 0.8881
 Lab ID: QC860295

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.8589	44.40	51.20	115	56-133
Benzene	<0.8248	44.40	48.34	109	57-120
Trichloroethene	<0.7634	44.40	47.84	108	49-145
Toluene	<0.6502	44.40	46.28	104	51-120
Chlorobenzene	<0.6271	44.40	45.95	103	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	110	78-134
1,2-Dichloroethane-d4	113	80-138
Toluene-d8	95	80-120
Bromofluorobenzene	99	78-123

Type: MSD Diln Fac: 0.9434
 Lab ID: QC860296

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	47.17	49.06	104	56-133	10	46
Benzene	47.17	47.29	100	57-120	8	44
Trichloroethene	47.17	45.31	96	49-145	11	46
Toluene	47.17	43.02	91	51-120	13	47
Chlorobenzene	47.17	41.02	87	47-120	17	50

Surrogate	%REC	Limits
Dibromofluoromethane	110	78-134
1,2-Dichloroethane-d4	111	80-138
Toluene-d8	96	80-120
Bromofluorobenzene	96	78-123

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	241300
MSS Lab ID:	283261-001	Sampled:	11/11/16
Matrix:	Soil	Received:	11/11/16
Units:	ug/Kg	Analyzed:	11/12/16
Basis:	as received		

Type: MS Diln Fac: 0.8881
 Lab ID: QC860295

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.8589	44.40	51.20	115	56-133
Benzene	<0.8248	44.40	48.34	109	57-120
Trichloroethene	<0.7634	44.40	47.84	108	49-145
Toluene	<0.6502	44.40	46.28	104	51-120
Chlorobenzene	<0.6271	44.40	45.95	103	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	110	78-134
1,2-Dichloroethane-d4	113	80-138
Toluene-d8	95	80-120
Bromofluorobenzene	99	78-123

Type: MSD Diln Fac: 0.9434
 Lab ID: QC860296

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	47.17	49.06	104	56-133	10	46
Benzene	47.17	47.29	100	57-120	8	44
Trichloroethene	47.17	45.31	96	49-145	11	46
Toluene	47.17	43.02	91	51-120	13	47
Chlorobenzene	47.17	41.02	87	47-120	17	50

Surrogate	%REC	Limits
Dibromofluoromethane	110	78-134
1,2-Dichloroethane-d4	111	80-138
Toluene-d8	96	80-120
Bromofluorobenzene	96	78-123

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860420	Batch#:	241344
Matrix:	Soil	Analyzed:	11/14/16
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	20.52	82	70-134
Benzene	25.00	23.99	96	80-123
Trichloroethene	25.00	21.65	87	80-128
Toluene	25.00	23.29	93	80-120
Chlorobenzene	25.00	21.42	86	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	98	78-134
1,2-Dichloroethane-d4	114	80-138
Toluene-d8	107	80-120
Bromofluorobenzene	102	78-123

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860421	Batch#:	241344
Matrix:	Soil	Analyzed:	11/14/16
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860421	Batch#:	241344
Matrix:	Soil	Analyzed:	11/14/16
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	101	78-134
1,2-Dichloroethane-d4	110	80-138
Toluene-d8	108	80-120
Bromofluorobenzene	109	78-123

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	241344
MSS Lab ID:	283279-001	Sampled:	11/10/16
Matrix:	Soil	Received:	11/11/16
Units:	ug/Kg	Analyzed:	11/14/16
Basis:	as received		

Type: MS Diln Fac: 0.9542
 Lab ID: QC860503

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5574	47.71	35.76	75	56-133
Benzene	<0.6494	47.71	42.48	89	57-120
Trichloroethene	<0.6764	47.71	39.00	82	49-145
Toluene	<0.7114	47.71	42.57	89	51-120
Chlorobenzene	<0.5832	47.71	39.04	82	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	91	78-134
1,2-Dichloroethane-d4	107	80-138
Toluene-d8	106	80-120
Bromofluorobenzene	83	78-123

Type: MSD Diln Fac: 0.9174
 Lab ID: QC860504

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	45.87	38.30	83	56-133	11	46
Benzene	45.87	44.95	98	57-120	10	44
Trichloroethene	45.87	41.25	90	49-145	10	46
Toluene	45.87	44.95	98	51-120	9	47
Chlorobenzene	45.87	40.83	89	47-120	8	50

Surrogate	%REC	Limits
Dibromofluoromethane	91	78-134
1,2-Dichloroethane-d4	105	80-138
Toluene-d8	106	80-120
Bromofluorobenzene	82	78-123

RPD= Relative Percent Difference

Semivolatile Organics by GC/MS SIM

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-1 (0-1)	Batch#:	241240
Lab ID:	283192-001	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/10/16
Basis:	as received	Analyzed:	11/10/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.99
Acenaphthylene	ND	5.0	0.99
Acenaphthene	ND	5.0	0.99
Fluorene	ND	5.0	0.99
Phenanthrene	ND	5.0	0.99
Anthracene	ND	5.0	0.99
Fluoranthene	ND	5.0	0.99
Pyrene	ND	5.0	0.99
Benzo(a)anthracene	ND	5.0	0.99
Chrysene	ND	5.0	0.99
Benzo(b)fluoranthene	ND	5.0	0.99
Benzo(k)fluoranthene	ND	5.0	0.99
Benzo(a)pyrene	ND	5.0	0.99
Indeno(1,2,3-cd)pyrene	ND	5.0	1.0
Dibenz(a,h)anthracene	ND	5.0	1.0
Benzo(g,h,i)perylene	ND	5.0	1.2

Surrogate	%REC	Limits
Nitrobenzene-d5	92	40-120
2-Fluorobiphenyl	85	46-120
Terphenyl-d14	91	43-120

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-2 (0-1)	Batch#:	241240
Lab ID:	283192-004	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/10/16
Basis:	as received	Analyzed:	11/10/16
Diln Fac:	20.00		

Analyte	Result	RL	MDL
Naphthalene	ND	100	20
Acenaphthylene	ND	100	20
Acenaphthene	ND	100	20
Fluorene	ND	100	20
Phenanthrene	54 J	100	20
Anthracene	ND	100	20
Fluoranthene	ND	100	20
Pyrene	ND	100	20
Benzo(a)anthracene	ND	100	20
Chrysene	37 J	100	20
Benzo(b)fluoranthene	ND	100	20
Benzo(k)fluoranthene	ND	100	20
Benzo(a)pyrene	ND	100	20
Indeno(1,2,3-cd)pyrene	ND	100	21
Dibenz(a,h)anthracene	ND	100	20
Benzo(g,h,i)perylene	ND	100	25

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	40-120
2-Fluorobiphenyl	DO	46-120
Terphenyl-d14	DO	43-120

J= Estimated value
 DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-3 (0-1)	Batch#:	241240
Lab ID:	283192-007	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/10/16
Basis:	as received	Analyzed:	11/10/16
Diln Fac:	3.000		

Analyte	Result	RL	MDL
Naphthalene	18	15	3.0
Acenaphthylene	23	15	3.0
Acenaphthene	ND	15	3.0
Fluorene	4.8 J	15	3.0
Phenanthrene	200	15	3.0
Anthracene	27	15	3.0
Fluoranthene	450	15	3.0
Pyrene	530	15	3.0
Benzo(a)anthracene	160	15	3.0
Chrysene	180	15	3.0
Benzo(b)fluoranthene	250	15	3.0
Benzo(k)fluoranthene	69	15	3.0
Benzo(a)pyrene	240	15	3.0
Indeno(1,2,3-cd)pyrene	120	15	3.1
Dibenz(a,h)anthracene	22	15	3.0
Benzo(g,h,i)perylene	130	15	3.7

Surrogate	%REC	Limits
Nitrobenzene-d5	88	40-120
2-Fluorobiphenyl	80	46-120
Terphenyl-d14	88	43-120

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-4 (0-1)	Batch#:	241240
Lab ID:	283192-010	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/10/16
Basis:	as received	Analyzed:	11/10/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	1.0
Acenaphthylene	1.0 J	5.0	1.0
Acenaphthene	ND	5.0	1.0
Fluorene	ND	5.0	1.0
Phenanthrene	3.9 J	5.0	1.0
Anthracene	1.2 J	5.0	1.0
Fluoranthene	8.0	5.0	1.0
Pyrene	8.9	5.0	1.0
Benzo(a)anthracene	5.9	5.0	1.0
Chrysene	6.1	5.0	1.0
Benzo(b)fluoranthene	8.6	5.0	1.0
Benzo(k)fluoranthene	2.2 J	5.0	1.0
Benzo(a)pyrene	6.8	5.0	1.0
Indeno(1,2,3-cd)pyrene	3.0 J	5.0	1.0
Dibenz(a,h)anthracene	1.1 J	5.0	1.0
Benzo(g,h,i)perylene	3.2 J	5.0	1.2

Surrogate	%REC	Limits
Nitrobenzene-d5	90	40-120
2-Fluorobiphenyl	80	46-120
Terphenyl-d14	89	43-120

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-5 (0-1)	Batch#:	241240
Lab ID:	283192-016	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/10/16
Basis:	as received	Analyzed:	11/10/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Naphthalene	ND	5.1	1.0
Acenaphthylene	ND	5.1	1.0
Acenaphthene	ND	5.1	1.0
Fluorene	ND	5.1	1.0
Phenanthrene	ND	5.1	1.0
Anthracene	ND	5.1	1.0
Fluoranthene	ND	5.1	1.0
Pyrene	ND	5.1	1.0
Benzo(a)anthracene	ND	5.1	1.0
Chrysene	ND	5.1	1.0
Benzo(b)fluoranthene	ND	5.1	1.0
Benzo(k)fluoranthene	ND	5.1	1.0
Benzo(a)pyrene	ND	5.1	1.0
Indeno(1,2,3-cd)pyrene	ND	5.1	1.0
Dibenz(a,h)anthracene	ND	5.1	1.0
Benzo(g,h,i)perylene	ND	5.1	1.2

Surrogate	%REC	Limits
Nitrobenzene-d5	115	40-120
2-Fluorobiphenyl	102	46-120
Terphenyl-d14	104	43-120

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-9 (13-13.5)	Batch#:	241240
Lab ID:	283192-024	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/10/16
Basis:	as received	Analyzed:	11/10/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Naphthalene	16	5.0	0.99
Acenaphthylene	ND	5.0	0.99
Acenaphthene	ND	5.0	0.99
Fluorene	1.8 J	5.0	0.99
Phenanthrene	6.7	5.0	0.99
Anthracene	ND	5.0	0.99
Fluoranthene	ND	5.0	0.99
Pyrene	1.5 J	5.0	0.99
Benzo(a)anthracene	ND	5.0	0.99
Chrysene	ND	5.0	0.99
Benzo(b)fluoranthene	ND	5.0	0.99
Benzo(k)fluoranthene	ND	5.0	0.99
Benzo(a)pyrene	ND	5.0	0.99
Indeno(1,2,3-cd)pyrene	ND	5.0	1.0
Dibenz(a,h)anthracene	ND	5.0	1.0
Benzo(g,h,i)perylene	ND	5.0	1.2

Surrogate	%REC	Limits
Nitrobenzene-d5	108	40-120
2-Fluorobiphenyl	95	46-120
Terphenyl-d14	104	43-120

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-17 (0-1)	Batch#:	241240
Lab ID:	283192-044	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/10/16
Basis:	as received	Analyzed:	11/11/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Naphthalene	ND	4.9	0.98
Acenaphthylene	ND	4.9	0.98
Acenaphthene	ND	4.9	0.98
Fluorene	ND	4.9	0.98
Phenanthrene	ND	4.9	0.98
Anthracene	ND	4.9	0.98
Fluoranthene	ND	4.9	0.98
Pyrene	1.0 J	4.9	0.98
Benzo(a)anthracene	ND	4.9	0.98
Chrysene	ND	4.9	0.98
Benzo(b)fluoranthene	1.2 J	4.9	0.98
Benzo(k)fluoranthene	ND	4.9	0.98
Benzo(a)pyrene	ND	4.9	0.98
Indeno(1,2,3-cd)pyrene	ND	4.9	1.0
Dibenz(a,h)anthracene	ND	4.9	0.99
Benzo(g,h,i)perylene	ND	4.9	1.2

Surrogate	%REC	Limits
Nitrobenzene-d5	81	40-120
2-Fluorobiphenyl	75	46-120
Terphenyl-d14	82	43-120

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-14 (6-7)	Batch#:	241240
Lab ID:	283192-049	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/10/16
Basis:	as received	Analyzed:	11/11/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	1.0
Acenaphthylene	ND	5.0	1.0
Acenaphthene	ND	5.0	1.0
Fluorene	ND	5.0	1.0
Phenanthrene	ND	5.0	1.0
Anthracene	ND	5.0	1.0
Fluoranthene	ND	5.0	1.0
Pyrene	ND	5.0	1.0
Benzo(a)anthracene	ND	5.0	1.0
Chrysene	ND	5.0	1.0
Benzo(b)fluoranthene	ND	5.0	1.0
Benzo(k)fluoranthene	ND	5.0	1.0
Benzo(a)pyrene	ND	5.0	1.0
Indeno(1,2,3-cd)pyrene	ND	5.0	1.0
Dibenz(a,h)anthracene	ND	5.0	1.0
Benzo(g,h,i)perylene	ND	5.0	1.0

Surrogate	%REC	Limits
Nitrobenzene-d5	116	40-120
2-Fluorobiphenyl	98	46-120
Terphenyl-d14	111	43-120

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-7 (0-1)	Batch#:	241240
Lab ID:	283192-055	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/10/16
Basis:	as received	Analyzed:	11/11/16
Diln Fac:	5.000		

Analyte	Result	RL	MDL
Naphthalene	ND	25	5.0
Acenaphthylene	ND	25	5.0
Acenaphthene	ND	25	5.0
Fluorene	ND	25	5.0
Phenanthrene	ND	25	5.0
Anthracene	ND	25	5.0
Fluoranthene	ND	25	5.0
Pyrene	5.5 J	25	5.0
Benzo(a)anthracene	ND	25	5.0
Chrysene	ND	25	5.0
Benzo(b)fluoranthene	ND	25	5.0
Benzo(k)fluoranthene	ND	25	5.0
Benzo(a)pyrene	ND	25	5.0
Indeno(1,2,3-cd)pyrene	ND	25	5.0
Dibenz(a,h)anthracene	ND	25	5.0
Benzo(g,h,i)perylene	15 J	25	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	104	40-120
2-Fluorobiphenyl	97	46-120
Terphenyl-d14	104	43-120

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report
Semivolatile Organics by GC/MS SIM

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC859998	Batch#:	241240
Matrix:	Soil	Prepared:	11/10/16
Units:	ug/Kg	Analyzed:	11/10/16

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.99
Acenaphthylene	ND	5.0	0.99
Acenaphthene	ND	5.0	0.99
Fluorene	ND	5.0	0.99
Phenanthrene	ND	5.0	0.99
Anthracene	ND	5.0	0.99
Fluoranthene	ND	5.0	0.99
Pyrene	ND	5.0	0.99
Benzo(a)anthracene	ND	5.0	0.99
Chrysene	ND	5.0	0.99
Benzo(b)fluoranthene	ND	5.0	0.99
Benzo(k)fluoranthene	ND	5.0	0.99
Benzo(a)pyrene	ND	5.0	0.99
Indeno(1,2,3-cd)pyrene	ND	5.0	0.99
Dibenz(a,h)anthracene	ND	5.0	0.99
Benzo(g,h,i)perylene	ND	5.0	0.99

Surrogate	%REC	Limits
Nitrobenzene-d5	97	40-120
2-Fluorobiphenyl	85	46-120
Terphenyl-d14	96	43-120

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC859999	Batch#:	241240
Matrix:	Soil	Prepared:	11/10/16
Units:	ug/Kg	Analyzed:	11/10/16

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.17	34.94	105	49-120
Pyrene	33.17	39.86	120	48-120

Surrogate	%REC	Limits
Nitrobenzene-d5	135 *	40-120
2-Fluorobiphenyl	109	46-120
Terphenyl-d14	127 *	43-120

*= Value outside of QC limits; see narrative

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Field ID:	EB-1 (0-1)	Batch#:	241291
Lab ID:	283192-001	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/11/16
Basis:	as received	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
alpha-BHC	ND	0.85	0.12
beta-BHC	ND	0.85	0.20
gamma-BHC	ND	0.85	0.20
delta-BHC	ND	0.85	0.10
Heptachlor	ND	0.85	0.18
Aldrin	ND	0.85	0.21
Heptachlor epoxide	ND	0.85	0.12
Endosulfan I	ND	0.85	0.16
Dieldrin	ND	0.85	0.23
4,4'-DDE	ND	1.6	0.22
Endrin	ND	1.6	0.29
Endosulfan II	ND	1.6	0.24
Endosulfan sulfate	ND	1.6	0.24
4,4'-DDD	ND	1.6	0.23
Endrin aldehyde	ND	1.6	0.20
4,4'-DDT	ND	1.6	0.22
Chlordane (Technical)	ND	15	3.4
alpha-Chlordane	ND	0.85	0.13
gamma-Chlordane	ND	0.85	0.18
Methoxychlor	ND	8.5	1.3
Toxaphene	ND	30	7.2

Surrogate	%REC	Limits
TCMX	47	44-125
Decachlorobiphenyl	78	39-121

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Field ID:	EB-2 (0-1)	Batch#:	241291
Lab ID:	283192-004	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/11/16
Basis:	as received	Analyzed:	11/18/16
Diln Fac:	50.00		

Analyte	Result	RL	MDL
alpha-BHC	ND	43	6.2
beta-BHC	ND	43	10
gamma-BHC	ND	43	9.8
delta-BHC	ND	43	5.1
Heptachlor	ND	43	9.3
Aldrin	ND	43	10
Heptachlor epoxide	ND	43	6.2
Endosulfan I	ND	43	8.0
Dieldrin	ND	43	12
4,4'-DDE	ND	83	11
Endrin	ND	83	15
Endosulfan II	ND	83	12
Endosulfan sulfate	ND	83	12
4,4'-DDD	ND	83	12
Endrin aldehyde	ND	83	9.9
4,4'-DDT	ND	83	11
Chlordane (Technical)	ND	750	170
alpha-Chlordane	ND	43	6.4
gamma-Chlordane	ND	43	9.0
Methoxychlor	ND	430	67
Toxaphene	ND	1,500	360

Surrogate	%REC	Limits
TCMX	DO	44-125
Decachlorobiphenyl	DO	39-121

DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Field ID:	EB-3 (0-1)	Batch#:	241291
Lab ID:	283192-007	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/11/16
Basis:	as received	Analyzed:	11/18/16
Diln Fac:	20.00		

Analyte	Result	RL	MDL
alpha-BHC	ND	17	2.4
beta-BHC	ND	17	4.0
gamma-BHC	ND	17	3.9
delta-BHC	ND	17	2.0
Heptachlor	ND	17	3.7
Aldrin	ND	17	4.2
Heptachlor epoxide	ND	17	2.5
Endosulfan I	ND	17	3.2
Dieldrin	ND	17	4.6
4,4'-DDE	ND	33	4.4
Endrin	ND	33	5.8
Endosulfan II	ND	33	4.8
Endosulfan sulfate	ND	33	4.8
4,4'-DDD	ND	33	4.7
Endrin aldehyde	ND	33	3.9
4,4'-DDT	ND	33	4.3
Chlordane (Technical)	ND	300	68
alpha-Chlordane	ND	17	2.5
gamma-Chlordane	ND	17	3.6
Methoxychlor	ND	170	26
Toxaphene	ND	600	140

Surrogate	%REC	Limits
TCMX	DO	44-125
Decachlorobiphenyl	DO	39-121

DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Field ID:	EB-4 (0-1)	Batch#:	241291
Lab ID:	283192-010	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/11/16
Basis:	as received	Analyzed:	11/18/16
Diln Fac:	2.000		

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.25
beta-BHC	ND	1.7	0.40
gamma-BHC	ND	1.7	0.39
delta-BHC	ND	1.7	0.20
Heptachlor	ND	1.7	0.37
Aldrin	ND	1.7	0.42
Heptachlor epoxide	ND	1.7	0.25
Endosulfan I	ND	1.7	0.32
Dieldrin	ND	1.7	0.47
4,4'-DDE	ND	3.3	0.44
Endrin	ND	3.3	0.58
Endosulfan II	ND	3.3	0.49
Endosulfan sulfate	ND	3.3	0.48
4,4'-DDD	ND	3.3	0.47
Endrin aldehyde	ND	3.3	0.39
4,4'-DDT	ND	3.3	0.43
Chlordane (Technical)	ND	30	6.8
alpha-Chlordane	ND	1.7	0.25
gamma-Chlordane	ND	1.7	0.36
Methoxychlor	ND	17	2.7
Toxaphene	ND	60	14

Surrogate	%REC	Limits
TCMX	79	44-125
Decachlorobiphenyl	103	39-121

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Field ID:	EB-5 (0-1)	Batch#:	241291
Lab ID:	283192-016	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/11/16
Basis:	as received	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
alpha-BHC	ND	0.86	0.12
beta-BHC	ND	0.86	0.20
gamma-BHC	ND	0.86	0.20
delta-BHC	ND	0.86	0.10
Heptachlor	ND	0.86	0.19
Aldrin	ND	0.86	0.21
Heptachlor epoxide	ND	0.86	0.12
Endosulfan I	ND	0.86	0.16
Dieldrin	ND	0.86	0.24
4,4'-DDE	ND	1.7	0.22
Endrin	ND	1.7	0.29
Endosulfan II	ND	1.7	0.24
Endosulfan sulfate	ND	1.7	0.24
4,4'-DDD	ND	1.7	0.24
Endrin aldehyde	ND	1.7	0.20
4,4'-DDT	ND	1.7	0.22
Chlordane (Technical)	ND	15	3.4
alpha-Chlordane	ND	0.86	0.13
gamma-Chlordane	0.25 J	0.86	0.18
Methoxychlor	ND	8.6	1.3
Toxaphene	ND	30	7.3

Surrogate	%REC	Limits
TCMX	61	44-125
Decachlorobiphenyl	74	39-121

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Field ID:	EB-9 (13-13.5)	Batch#:	241291
Lab ID:	283192-024	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/11/16
Basis:	as received	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
alpha-BHC	ND	0.84	0.12
beta-BHC	ND	0.84	0.20
gamma-BHC	ND	0.84	0.19
delta-BHC	ND	0.84	0.10
Heptachlor	ND	0.84	0.18
Aldrin	ND	0.84	0.21
Heptachlor epoxide	ND	0.84	0.12
Endosulfan I	ND	0.84	0.16
Dieldrin	ND	0.84	0.23
4,4'-DDE	ND	1.6	0.22
Endrin	ND	1.6	0.29
Endosulfan II	ND	1.6	0.24
Endosulfan sulfate	ND	1.6	0.24
4,4'-DDD	ND	1.6	0.23
Endrin aldehyde	ND	1.6	0.20
4,4'-DDT	ND	1.6	0.22
Chlordane (Technical)	ND	15	3.4
alpha-Chlordane	ND	0.84	0.13
gamma-Chlordane	ND	0.84	0.18
Methoxychlor	ND	8.4	1.3
Toxaphene	ND	30	7.2

Surrogate	%REC	Limits
TCMX	52	44-125
Decachlorobiphenyl	80	39-121

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Field ID:	EB-17 (0-1)	Batch#:	241291
Lab ID:	283192-044	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/11/16
Basis:	as received	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
alpha-BHC	ND	0.86	0.12
beta-BHC	ND	0.86	0.20
gamma-BHC	ND	0.86	0.20
delta-BHC	ND	0.86	0.10
Heptachlor	ND	0.86	0.19
Aldrin	ND	0.86	0.21
Heptachlor epoxide	ND	0.86	0.12
Endosulfan I	ND	0.86	0.16
Dieldrin	ND	0.86	0.23
4,4'-DDE	ND	1.7	0.22
Endrin	ND	1.7	0.29
Endosulfan II	ND	1.7	0.24
Endosulfan sulfate	ND	1.7	0.24
4,4'-DDD	ND	1.7	0.24
Endrin aldehyde	ND	1.7	0.20
4,4'-DDT	ND	1.7	0.22
Chlordane (Technical)	ND	15	3.4
alpha-Chlordane	ND	0.86	0.13
gamma-Chlordane	ND	0.86	0.18
Methoxychlor	ND	8.6	1.3
Toxaphene	ND	30	7.3

Surrogate	%REC	Limits
TCMX	53	44-125
Decachlorobiphenyl	78	39-121

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Field ID:	EB-14 (6-7)	Batch#:	241291
Lab ID:	283192-049	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/11/16
Basis:	as received	Analyzed:	11/18/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
alpha-BHC	ND	0.86	0.12
beta-BHC	ND	0.86	0.20
gamma-BHC	ND	0.86	0.20
delta-BHC	ND	0.86	0.10
Heptachlor	ND	0.86	0.19
Aldrin	ND	0.86	0.21
Heptachlor epoxide	ND	0.86	0.12
Endosulfan I	ND	0.86	0.16
Dieldrin	ND	0.86	0.24
4,4'-DDE	ND	1.7	0.22
Endrin	ND	1.7	0.29
Endosulfan II	ND	1.7	0.25
Endosulfan sulfate	ND	1.7	0.24
4,4'-DDD	ND	1.7	0.24
Endrin aldehyde	ND	1.7	0.20
4,4'-DDT	ND	1.7	0.22
Chlordane (Technical)	ND	15	3.4
alpha-Chlordane	ND	0.86	0.13
gamma-Chlordane	ND	0.86	0.18
Methoxychlor	ND	8.6	1.3
Toxaphene	ND	30	7.3

Surrogate	%REC	Limits
TCMX	44	44-125
Decachlorobiphenyl	89	39-121

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Field ID:	EB-7 (0-1)	Batch#:	241291
Lab ID:	283192-055	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	11/11/16
Basis:	as received	Analyzed:	11/18/16
Diln Fac:	50.00		

Analyte	Result	RL	MDL
alpha-BHC	ND	42	6.1
beta-BHC	ND	42	9.9
gamma-BHC	ND	42	9.7
delta-BHC	ND	42	5.0
Heptachlor	ND	42	9.1
Aldrin	ND	42	10
Heptachlor epoxide	ND	42	6.1
Endosulfan I	ND	42	7.9
Dieldrin	ND	42	12
4,4'-DDE	ND	82	11
Endrin	ND	82	14
Endosulfan II	ND	82	12
Endosulfan sulfate	ND	82	12
4,4'-DDD	ND	82	12
Endrin aldehyde	ND	82	9.7
4,4'-DDT	ND	82	11
Chlordane (Technical)	ND	740	170
alpha-Chlordane	ND	42	6.3
gamma-Chlordane	ND	42	8.9
Methoxychlor	ND	420	66
Toxaphene	ND	1,500	360

Surrogate	%REC	Limits
TCMX	DO	44-125
Decachlorobiphenyl	DO	39-121

DO= Diluted Out
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Batch QC Report
Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860224	Batch#:	241291
Matrix:	Soil	Prepared:	11/11/16
Units:	ug/Kg	Analyzed:	11/18/16

Analyte	Result	RL	MDL
alpha-BHC	ND	0.85	0.12
beta-BHC	ND	0.85	0.20
gamma-BHC	ND	0.85	0.20
delta-BHC	ND	0.85	0.10
Heptachlor	ND	0.85	0.18
Aldrin	ND	0.85	0.21
Heptachlor epoxide	ND	0.85	0.12
Endosulfan I	ND	0.85	0.16
Dieldrin	ND	0.85	0.23
4,4'-DDE	ND	1.7	0.22
Endrin	ND	1.7	0.29
Endosulfan II	ND	1.7	0.24
Endosulfan sulfate	ND	1.7	0.24
4,4'-DDD	ND	1.7	0.23
Endrin aldehyde	ND	1.7	0.20
4,4'-DDT	ND	1.7	0.22
Chlordane (Technical)	ND	15	3.4
alpha-Chlordane	ND	0.85	0.13
gamma-Chlordane	ND	0.85	0.18
Methoxychlor	ND	8.5	1.3
Toxaphene	ND	30	7.2

Surrogate	%REC	Limits
TCMX	80	44-125
Decachlorobiphenyl	59	39-121

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860225	Batch#:	241291
Matrix:	Soil	Prepared:	11/11/16
Units:	ug/Kg	Analyzed:	11/21/16

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	6.623	5.302 # b	80	44-121
Heptachlor	6.623	3.875	59	45-129
Aldrin	6.623	4.182 b	63	45-120
Dieldrin	6.623	5.917	89	49-131
Endrin	6.623	6.480 b	98	43-135
4,4'-DDT	6.623	5.938	90	37-141

Surrogate	%REC	Limits
TCMX	63	44-125
Decachlorobiphenyl	85	39-121

#= CCV drift outside limits; average CCV drift within limits per method requirements
 b= See narrative

Low-Level PCBs			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Prepared:	11/15/16
Diln Fac:	1.000		

Field ID: EB-9 (13-13.5) Batch#: 241391
 Type: SAMPLE Analyzed: 11/16/16
 Lab ID: 283192-024

Analyte	Result	RL
Aroclor-1016	ND	4.8
Aroclor-1221	ND	9.6
Aroclor-1232	ND	4.8
Aroclor-1242	ND	4.8
Aroclor-1248	ND	4.8
Aroclor-1254	ND	4.8
Aroclor-1260	ND	4.8

Surrogate	%REC	Limits
TCMX	67	46-141
Decachlorobiphenyl	117	25-135

Field ID: EB-17 (0-1) Batch#: 241391
 Type: SAMPLE Analyzed: 11/17/16
 Lab ID: 283192-044

Analyte	Result	RL
Aroclor-1016	ND	4.8
Aroclor-1221	ND	9.6
Aroclor-1232	ND	4.8
Aroclor-1242	ND	4.8
Aroclor-1248	ND	4.8
Aroclor-1254	27	4.8
Aroclor-1260	16	4.8

Surrogate	%REC	Limits
TCMX	91	46-141
Decachlorobiphenyl	113	25-135

Field ID: EB-14 (6-7) Lab ID: 283192-049
 Type: SAMPLE Batch#: 241430

Analyte	Result	RL	Analyzed
Aroclor-1016	ND	4.8	11/19/16
Aroclor-1221	ND	9.6	11/19/16
Aroclor-1232	ND	4.8	11/19/16
Aroclor-1242	ND	4.8	11/19/16
Aroclor-1248	ND	4.8	11/19/16
Aroclor-1254	12	4.8	11/23/16
Aroclor-1260	ND	4.8	11/19/16

Surrogate	%REC	Limits	Analyzed
TCMX	78	46-141	11/19/16
Decachlorobiphenyl	75	25-135	11/19/16

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Low-Level PCBs			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Prepared:	11/15/16
Diln Fac:	1.000		

Field ID: EB-7 (0-1) Lab ID: 283192-055
 Type: SAMPLE Batch#: 241430

Analyte	Result	RL	Analyzed
Aroclor-1016	ND	4.7	11/19/16
Aroclor-1221	ND	9.5	11/19/16
Aroclor-1232	ND	4.7	11/19/16
Aroclor-1242	ND	4.7	11/19/16
Aroclor-1248	ND	4.7	11/19/16
Aroclor-1254	150	4.7	11/23/16
Aroclor-1260	17	4.7	11/19/16

Surrogate	%REC	Limits	Analyzed
TCMX	95	46-141	11/19/16
Decachlorobiphenyl	86	25-135	11/19/16

Type: BLANK Analyzed: 11/16/16
 Lab ID: QC860589 Cleanup Method: EPA 3620B
 Batch#: 241391

Analyte	Result	RL
Aroclor-1016	ND	4.8
Aroclor-1221	ND	9.6
Aroclor-1232	ND	4.8
Aroclor-1242	ND	4.8
Aroclor-1248	ND	4.8
Aroclor-1254	ND	4.8
Aroclor-1260	ND	4.8

Surrogate	%REC	Limits
TCMX	85	46-141
Decachlorobiphenyl	119	25-135

Type: BLANK Batch#: 241430
 Lab ID: QC860760 Analyzed: 11/20/16

Analyte	Result	RL
Aroclor-1016	ND	4.8
Aroclor-1221	ND	9.5
Aroclor-1232	ND	4.8
Aroclor-1242	ND	4.8
Aroclor-1248	ND	4.8
Aroclor-1254	ND	4.8
Aroclor-1260	ND	4.8

Surrogate	%REC	Limits
TCMX	92	46-141
Decachlorobiphenyl	106	25-135

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Low-Level PCBs			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860590	Batch#:	241391
Matrix:	Soil	Prepared:	11/15/16
Units:	ug/Kg	Analyzed:	11/16/16

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.9	173.8	104	64-140
Aroclor-1260	166.9	200.3	120	65-146

Surrogate	%REC	Limits
TCMX	88	46-141
Decachlorobiphenyl	113	25-135

Batch QC Report

Low-Level PCBs			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	241391
MSS Lab ID:	283264-002	Sampled:	11/11/16
Matrix:	Soil	Received:	11/11/16
Units:	ug/Kg	Prepared:	11/15/16
Basis:	as received	Analyzed:	11/16/16
Diln Fac:	1.000		

Type: MS Lab ID: QC860612

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<1.188	82.89	76.68	93	60-161
Aroclor-1260	14.01	82.89	79.78	79	42-166

Surrogate	%REC	Limits
TCMX	68	46-141
Decachlorobiphenyl	63	25-135

Type: MSD Lab ID: QC860613

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	83.22	74.87	90	60-161	3	43
Aroclor-1260	83.22	73.86	72	42-166	8	51

Surrogate	%REC	Limits
TCMX	74	46-141
Decachlorobiphenyl	59	25-135

RPD= Relative Percent Difference

Batch QC Report

Low-Level PCBs			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860761	Batch#:	241430
Matrix:	Soil	Prepared:	11/15/16
Units:	ug/Kg	Analyzed:	11/20/16

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	168.3	177.4	105	64-140
Aroclor-1260	168.3	195.8	116	65-146

Surrogate	%REC	Limits
TCMX	94	46-141
Decachlorobiphenyl	101	25-135

Batch QC Report

Low-Level PCBs			
Lab #:	283192	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	241430
MSS Lab ID:	283254-001	Sampled:	11/10/16
Matrix:	Soil	Received:	11/10/16
Units:	ug/Kg	Prepared:	11/15/16
Basis:	as received	Analyzed:	11/20/16
Diln Fac:	1.000		

Type: MS Lab ID: QC860762

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.931	166.6	166.6	100	60-161
Aroclor-1260	<1.917	166.6	190.4	114	42-166

Surrogate	%REC	Limits
TCMX	88	46-141
Decachlorobiphenyl	99	25-135

Type: MSD Lab ID: QC860763

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	164.6	161.1	98	60-161	2	43
Aroclor-1260	164.6	171.3	104	42-166	9	51

Surrogate	%REC	Limits
TCMX	85	46-141
Decachlorobiphenyl	89	25-135

RPD= Relative Percent Difference

Laboratory Job Number 283192

Subcontracted Products

Enthalpy Analytical



Enthalpy Analytical, Inc.

Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com



Client: Curtis & Tompkins
Address: 2323 Fifth Street
Berkeley, CA 94710

Lab Request: 384548
Report Date: 11/29/2016
Date Received: 11/18/2016
Client ID: 15279

Attn: Will Rice

Comments: Project Number: 283192
Site: 914 W. Grand

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample # Client Sample ID

- 384548-001 EB-1 (0-1)
- 384548-002 EB-1 (2-3)
- 384548-003 EB-2 (0-1)
- 384548-004 EB-2 (2-3)
- 384548-005 EB-3 (0-1)
- 384548-006 EB-3 (2-3)
- 384548-007 EB-4 (0-1)
- 384548-008 EB-4 (2-3)
- 384548-009 EB-5 (0-1)
- 384548-010 EB-5 (2-3)
- 384548-011 EB-9 (13-13.5)
- 384548-012 EB-17 (0-1)
- 384548-013 EB-14 (6-7)
- 384548-014 EB-7 (0-1)

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Report Review performed by: Winston Yu, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/09/2016 13:50	Site:	
Sample #: <u>384548-001</u>	Client Sample #: EB-1 (0-1)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>		Prep Method: EPA 3050B		QCBatchID: QC1172830			
Antimony	ND	1	3	mg/Kg	11/26/16	11/28/16	KLN
Arsenic	6.64	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	127	1	1	mg/Kg	11/26/16	11/28/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Cadmium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Chromium	19.8	1	1	mg/Kg	11/26/16	11/28/16	KLN
Cobalt	8.28	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Copper	17.0	1	1	mg/Kg	11/26/16	11/28/16	KLN
Lead	92.4	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	18.8	1	1.5	mg/Kg	11/26/16	11/28/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Vanadium	24.0	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Zinc	87.8	1	5	mg/Kg	11/26/16	11/29/16	KLN
Method: EPA 7471A <i>NELAC</i>		Prep Method: EPA 7471A		QCBatchID: QC1172858			
Mercury	0.32	1	0.14	mg/Kg	11/28/16	11/28/16	MH

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/09/2016 13:50	Site:	
Sample #: <u>384548-002</u>	Client Sample #: EB-1 (2-3)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>		Prep Method: EPA 3050B		QCBatchID: QC1172830			
Antimony	ND	1	3	mg/Kg	11/26/16	11/28/16	KLN
Arsenic	1.53	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	68.8	1	1	mg/Kg	11/26/16	11/28/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Cadmium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Chromium	41.3	1	1	mg/Kg	11/26/16	11/28/16	KLN
Cobalt	5.77	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Copper	13.3	1	1	mg/Kg	11/26/16	11/28/16	KLN
Lead	4.84	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	27.3	1	1.5	mg/Kg	11/26/16	11/28/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Vanadium	21.5	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Zinc	24.9	1	5	mg/Kg	11/26/16	11/29/16	KLN
Method: EPA 7471A <i>NELAC</i>		Prep Method: EPA 7471A		QCBatchID: QC1172858			
Mercury	ND	1	0.14	mg/Kg	11/28/16	11/28/16	MH

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/09/2016 14:02	Site:	
Sample #: <u>384548-003</u>	Client Sample #: EB-2 (0-1)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>		Prep Method: EPA 3050B		QCBatchID: QC1172830			
Antimony	ND	1	3	mg/Kg	11/26/16	11/28/16	KLN
Arsenic	3.99	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	99.6	1	1	mg/Kg	11/26/16	11/28/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Cadmium	0.62	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Chromium	19.7	1	1	mg/Kg	11/26/16	11/28/16	KLN
Cobalt	15.9	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Copper	36.8	1	1	mg/Kg	11/26/16	11/28/16	KLN
Lead	3.91	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	25.3	1	1.5	mg/Kg	11/26/16	11/28/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Vanadium	62.2	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Zinc	57.6	1	5	mg/Kg	11/26/16	11/29/16	KLN

Method: EPA 7471A <i>NELAC</i>		Prep Method: EPA 7471A		QCBatchID: QC1172858			
Mercury	0.60	1	0.14	mg/Kg	11/28/16	11/28/16	MH

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/09/2016 14:02	Site:	
Sample #: <u>384548-004</u>	Client Sample #: EB-2 (2-3)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>		Prep Method: EPA 3050B		QCBatchID: QC1172830			
Antimony	ND	1	3	mg/Kg	11/26/16	11/28/16	KLN
Arsenic	3.21	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	95.8	1	1	mg/Kg	11/26/16	11/28/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Cadmium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Chromium	37.4	1	1	mg/Kg	11/26/16	11/28/16	KLN
Cobalt	5.83	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Copper	11.6	1	1	mg/Kg	11/26/16	11/28/16	KLN
Lead	3.47	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	20.5	1	1.5	mg/Kg	11/26/16	11/28/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Vanadium	27.0	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Zinc	25.6	1	5	mg/Kg	11/26/16	11/29/16	KLN

Method: EPA 7471A <i>NELAC</i>		Prep Method: EPA 7471A		QCBatchID: QC1172858			
Mercury	ND	1	0.14	mg/Kg	11/28/16	11/28/16	MH

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/09/2016 12:47	Site:	
Sample #: <u>384548-005</u>	Client Sample #: EB-3 (0-1)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>	Prep Method: EPA 3050B		QCBatchID: QC1172830				
Antimony	ND	1	3	mg/Kg	11/26/16	11/28/16	KLN
Arsenic	4.75	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	118	1	1	mg/Kg	11/26/16	11/28/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Cadmium	0.90	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Chromium	7.06	1	1	mg/Kg	11/26/16	11/28/16	KLN
Cobalt	8.98	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Copper	31.6	1	1	mg/Kg	11/26/16	11/28/16	KLN
Lead	139	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	6.82	1	1.5	mg/Kg	11/26/16	11/28/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Vanadium	20.9	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Zinc	160	1	5	mg/Kg	11/26/16	11/29/16	KLN

Method: EPA 7471A <i>NELAC</i>	Prep Method: EPA 7471A		QCBatchID: QC1172858				
Mercury	ND	1	0.14	mg/Kg	11/28/16	11/28/16	MH

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/09/2016 12:47	Site:	
Sample #: <u>384548-006</u>	Client Sample #: EB-3 (2-3)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>	Prep Method: EPA 3050B		QCBatchID: QC1172830				
Antimony	ND	1	3	mg/Kg	11/26/16	11/28/16	KLN
Arsenic	3.09	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	121	1	1	mg/Kg	11/26/16	11/28/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Cadmium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Chromium	26.5	1	1	mg/Kg	11/26/16	11/28/16	KLN
Cobalt	5.23	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Copper	27.0	1	1	mg/Kg	11/26/16	11/28/16	KLN
Lead	77.5	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	17.3	1	1.5	mg/Kg	11/26/16	11/28/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Vanadium	21.1	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Zinc	131	1	5	mg/Kg	11/26/16	11/29/16	KLN

Method: EPA 7471A <i>NELAC</i>	Prep Method: EPA 7471A		QCBatchID: QC1172858				
Mercury	0.44	1	0.14	mg/Kg	11/28/16	11/28/16	MH

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/09/2016 11:51	Site:	
Sample #: <u>384548-007</u>	Client Sample #: EB-4 (0-1)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>		Prep Method: EPA 3050B		QCBatchID: QC1172830			
Antimony	ND	1	3	mg/Kg	11/26/16	11/28/16	KLN
Arsenic	4.43	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	109	1	1	mg/Kg	11/26/16	11/28/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Cadmium	1.25	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Chromium	28.6	1	1	mg/Kg	11/26/16	11/28/16	KLN
Cobalt	6.73	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Copper	37.2	1	1	mg/Kg	11/26/16	11/28/16	KLN
Lead	529	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Molybdenum	1.50	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	57.0	1	1.5	mg/Kg	11/26/16	11/28/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Vanadium	37.5	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Zinc	144	1	5	mg/Kg	11/26/16	11/29/16	KLN

Method: EPA 7471A <i>NELAC</i>		Prep Method: EPA 7471A		QCBatchID: QC1172858			
Mercury	ND	1	0.14	mg/Kg	11/28/16	11/28/16	MH

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/09/2016 11:54	Site:	
Sample #: <u>384548-008</u>	Client Sample #: EB-4 (2-3)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>		Prep Method: EPA 3050B		QCBatchID: QC1172830			
Antimony	ND	1	3	mg/Kg	11/26/16	11/28/16	KLN
Arsenic	3.70	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	147	1	1	mg/Kg	11/26/16	11/28/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Cadmium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Chromium	31.4	1	1	mg/Kg	11/26/16	11/28/16	KLN
Cobalt	4.82	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Copper	16.3	1	1	mg/Kg	11/26/16	11/28/16	KLN
Lead	345	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	18.6	1	1.5	mg/Kg	11/26/16	11/28/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Vanadium	24.0	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Zinc	104	1	5	mg/Kg	11/26/16	11/29/16	KLN

Method: EPA 7471A <i>NELAC</i>		Prep Method: EPA 7471A		QCBatchID: QC1172858			
Mercury	0.31	1	0.14	mg/Kg	11/28/16	11/28/16	MH

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/09/2016 11:23	Site:	
Sample #: <u>384548-009</u>	Client Sample #: EB-5 (0-1)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>	Prep Method: EPA 3050B		QCBatchID: QC1172830				
Antimony	ND	1	3	mg/Kg	11/26/16	11/28/16	KLN
Arsenic	3.97	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	92.8	1	1	mg/Kg	11/26/16	11/28/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Cadmium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Chromium	32.0	1	1	mg/Kg	11/26/16	11/28/16	KLN
Cobalt	6.89	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Copper	10.4	1	1	mg/Kg	11/26/16	11/28/16	KLN
Lead	5.06	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	19.3	1	1.5	mg/Kg	11/26/16	11/28/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Vanadium	25.3	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Zinc	19.9	1	5	mg/Kg	11/26/16	11/29/16	KLN

Method: EPA 7471A <i>NELAC</i>	Prep Method: EPA 7471A		QCBatchID: QC1172858				
Mercury	ND	1	0.14	mg/Kg	11/28/16	11/28/16	MH

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/09/2016 11:23	Site:	
Sample #: <u>384548-010</u>	Client Sample #: EB-5 (2-3)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>	Prep Method: EPA 3050B		QCBatchID: QC1172830				
Antimony	ND	1	3	mg/Kg	11/26/16	11/29/16	KLN
Arsenic	2.63	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	100	1	1	mg/Kg	11/26/16	11/29/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Cadmium	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Chromium	36.9	1	1	mg/Kg	11/26/16	11/29/16	KLN
Cobalt	3.96	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Copper	10.8	1	1	mg/Kg	11/26/16	11/29/16	KLN
Lead	4.13	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	19.8	1	1.5	mg/Kg	11/26/16	11/29/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Vanadium	27.7	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Zinc	19.5	1	5	mg/Kg	11/26/16	11/29/16	KLN

Method: EPA 7471A <i>NELAC</i>	Prep Method: EPA 7471A		QCBatchID: QC1172858				
Mercury	ND	1	0.14	mg/Kg	11/28/16	11/28/16	MH

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/09/2016 15:33	Site:	
Sample #: <u>384548-011</u>	Client Sample #: EB-9 (13-13.5)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>		Prep Method: EPA 3050B		QCBatchID: QC1172830			
Antimony	ND	1	3	mg/Kg	11/26/16	11/29/16	KLN
Arsenic	7.97	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	208	1	1	mg/Kg	11/26/16	11/29/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Cadmium	0.81	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Chromium	39.6	1	1	mg/Kg	11/26/16	11/29/16	KLN
Cobalt	21.0	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Copper	19.3	1	1	mg/Kg	11/26/16	11/29/16	KLN
Lead	10.8	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	97.9	1	1.5	mg/Kg	11/26/16	11/29/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Vanadium	42.8	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Zinc	43.2	1	5	mg/Kg	11/26/16	11/29/16	KLN
Method: EPA 7471A <i>NELAC</i>		Prep Method: EPA 7471A		QCBatchID: QC1172858			
Mercury	ND	1	0.14	mg/Kg	11/28/16	11/28/16	MH

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/09/2016 10:50	Site:	
Sample #: <u>384548-012</u>	Client Sample #: EB-17 (0-1)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>		Prep Method: EPA 3050B		QCBatchID: QC1172830			
Antimony	ND	1	3	mg/Kg	11/26/16	11/29/16	KLN
Arsenic	6.65	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	373	1	1	mg/Kg	11/26/16	11/29/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Cadmium	0.95	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Chromium	44.2	1	1	mg/Kg	11/26/16	11/29/16	KLN
Cobalt	7.64	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Copper	278	1	1	mg/Kg	11/26/16	11/29/16	KLN
Lead	1100	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	25.1	1	1.5	mg/Kg	11/26/16	11/29/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Vanadium	35.4	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Zinc	421	1	5	mg/Kg	11/26/16	11/29/16	KLN
Method: EPA 7471A <i>NELAC</i>		Prep Method: EPA 7471A		QCBatchID: QC1172858			
Mercury	1.08	1	0.14	mg/Kg	11/28/16	11/28/16	MH

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/09/2016 15:20	Site:	
Sample #: <u>384548-013</u>	Client Sample #: EB-14 (6-7)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>		Prep Method: EPA 3050B		QCBatchID: QC1172830			
Antimony	ND	1	3	mg/Kg	11/26/16	11/29/16	KLN
Arsenic	3.47	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	144	1	1	mg/Kg	11/26/16	11/29/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Cadmium	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Chromium	38.9	1	1	mg/Kg	11/26/16	11/29/16	KLN
Cobalt	10.4	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Copper	14.2	1	1	mg/Kg	11/26/16	11/29/16	KLN
Lead	31.1	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	40.3	1	1.5	mg/Kg	11/26/16	11/29/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Vanadium	30.4	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Zinc	38.2	1	5	mg/Kg	11/26/16	11/29/16	KLN

Method: EPA 7471A <i>NELAC</i>		Prep Method: EPA 7471A		QCBatchID: QC1172858			
Mercury	ND	1	0.14	mg/Kg	11/28/16	11/28/16	MH

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/09/2016 10:19	Site:	
Sample #: <u>384548-014</u>	Client Sample #: EB-7 (0-1)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>		Prep Method: EPA 3050B		QCBatchID: QC1172831			
Antimony	ND	1	3	mg/Kg	11/26/16	11/29/16	KLN
Arsenic	9.30	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	218	1	1	mg/Kg	11/26/16	11/29/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Cadmium	0.76	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Chromium	41.8	1	1	mg/Kg	11/26/16	11/29/16	KLN
Cobalt	7.64	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Copper	365	1	1	mg/Kg	11/26/16	11/29/16	KLN
Lead	404	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	41.2	1	1.5	mg/Kg	11/26/16	11/29/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Vanadium	33.6	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Zinc	167	1	5	mg/Kg	11/26/16	11/29/16	KLN

Method: EPA 7471A <i>NELAC</i>		Prep Method: EPA 7471A		QCBatchID: QC1172858			
Mercury	0.14	1	0.14	mg/Kg	11/28/16	11/28/16	MH

QCBatchID: QC1172830	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/26/2016	Instrument: AAICP (group)

Blank Summary						
Analyte	Blank Result	Units		RDL	Notes	
QC1172830MB1						
Antimony	ND	mg/Kg		3		
Arsenic	ND	mg/Kg		1		
Barium	ND	mg/Kg		1		
Beryllium	ND	mg/Kg		0.5		
Cadmium	ND	mg/Kg		0.5		
Chromium	ND	mg/Kg		1		
Cobalt	ND	mg/Kg		0.5		
Copper	ND	mg/Kg		1		
Lead	ND	mg/Kg		0.5		
Molybdenum	ND	mg/Kg		1		
Nickel	ND	mg/Kg		1.5		
Selenium	ND	mg/Kg		1		
Silver	ND	mg/Kg		0.5		
Thallium	ND	mg/Kg		1		
Vanadium	ND	mg/Kg		0.5		
Zinc	ND	mg/Kg		5		

Lab Control Spike/ Lab Control Spike Duplicate Summary											
Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1172830LCS1											
Antimony	100		87.1		mg/Kg	87			80-120		
Arsenic	100		85.3		mg/Kg	85			80-120		
Barium	100		93.9		mg/Kg	94			80-120		
Beryllium	100		96.8		mg/Kg	97			80-120		
Cadmium	100		90.0		mg/Kg	90			80-120		
Chromium	100		94.4		mg/Kg	94			80-120		
Cobalt	100		95.8		mg/Kg	96			80-120		
Copper	100		91.2		mg/Kg	91			80-120		
Lead	100		89.0		mg/Kg	89			80-120		
Molybdenum	100		94.9		mg/Kg	95			80-120		
Nickel	100		95.1		mg/Kg	95			80-120		
Selenium	100		91.7		mg/Kg	92			80-120		
Silver	100		101		mg/Kg	101			80-120		
Thallium	100		91.8		mg/Kg	92			80-120		
Vanadium	100		90.6		mg/Kg	91			80-120		
Zinc	100		87.0		mg/Kg	87			80-120		

Matrix Spike/Matrix Spike Duplicate Summary												
Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1172830MS1, QC1172830MSD1												
Source: 384546-018												
Antimony	ND	100	100	17.4	15.6	mg/Kg	17	16	10.9	75-125	20	M
Arsenic	4.14	100	100	83.3	77.1	mg/Kg	79	73	7.7	75-125	20	M
Barium	160	100	100	224	272	mg/Kg	64	112	19.4	75-125	20	M
Beryllium	ND	100	100	86.8	89.2	mg/Kg	87	89	2.7	75-125	20	
Cadmium	0.93	100	100	84.7	83.2	mg/Kg	84	82	1.8	75-125	20	
Chromium	56.5	100	100	137	151	mg/Kg	81	95	9.7	75-125	20	
Cobalt	9.99	100	100	94.6	88.3	mg/Kg	85	78	6.9	75-125	20	
Copper	133	100	100	170	165	mg/Kg	37	32	3.0	75-125	20	M
Lead	167	100	100	292	351	mg/Kg	125	184	18.4	75-125	20	M

QCBatchID: <u>QC1172830</u>	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/26/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1172830MS1, QC1172830MSD1											Source: 384546-018	
Molybdenum	ND	100	100	66.0	60.9	mg/Kg	66	61	8.0	75-125	20	M
Nickel	64.3	100	100	174	142	mg/Kg	110	78	20.3	75-125	20	M
Selenium	ND	100	100	53.2	48.1	mg/Kg	53	48	10.1	75-125	20	M
Silver	ND	100	100	81.7	80.6	mg/Kg	82	81	1.4	75-125	20	
Thallium	ND	100	100	70.9	72.4	mg/Kg	71	72	2.1	75-125	20	M
Vanadium	42.4	100	100	155	135	mg/Kg	113	93	13.8	75-125	20	
Zinc	298	100	100	377	407	mg/Kg	79	109	7.7	75-125	20	

QCBatchID: QC1172831	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/26/2016	Instrument: AAICP (group)

Blank Summary						
Analyte	Blank Result	Units		RDL	Notes	
QC1172831MB1						
Antimony	ND	mg/Kg		3		
Arsenic	ND	mg/Kg		1		
Barium	ND	mg/Kg		1		
Beryllium	ND	mg/Kg		0.5		
Cadmium	ND	mg/Kg		0.5		
Chromium	ND	mg/Kg		1		
Cobalt	ND	mg/Kg		0.5		
Copper	ND	mg/Kg		1		
Lead	ND	mg/Kg		0.5		
Molybdenum	ND	mg/Kg		1		
Nickel	ND	mg/Kg		1.5		
Selenium	ND	mg/Kg		1		
Silver	ND	mg/Kg		0.5		
Thallium	ND	mg/Kg		1		
Vanadium	ND	mg/Kg		0.5		
Zinc	ND	mg/Kg		5		

Lab Control Spike/ Lab Control Spike Duplicate Summary											
Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1172831LCS1											
Antimony	100		91.2		mg/Kg	91			80-120		
Arsenic	100		96.1		mg/Kg	96			80-120		
Barium	100		97.2		mg/Kg	97			80-120		
Beryllium	100		95.4		mg/Kg	95			80-120		
Cadmium	100		95.0		mg/Kg	95			80-120		
Chromium	100		98.8		mg/Kg	99			80-120		
Cobalt	100		100		mg/Kg	100			80-120		
Copper	100		99.4		mg/Kg	99			80-120		
Lead	100		94.9		mg/Kg	95			80-120		
Molybdenum	100		90.2		mg/Kg	90			80-120		
Nickel	100		99.3		mg/Kg	99			80-120		
Selenium	100		93.9		mg/Kg	94			80-120		
Silver	100		89.9		mg/Kg	90			80-120		
Thallium	100		97.0		mg/Kg	97			80-120		
Vanadium	100		98.7		mg/Kg	99			80-120		
Zinc	100		97.5		mg/Kg	98			80-120		

Matrix Spike/Matrix Spike Duplicate Summary												
Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1172831MS1, QC1172831MSD1												Source: 384549-001
Antimony	ND	100	100	27.2	33.7	mg/Kg	27	34	21.3	75-125	20	M,M,D
Arsenic	6.72	100	100	117	134	mg/Kg	110	127	13.5	75-125	20	M
Barium	318	100	100	479	549	mg/Kg	161	231	13.6	75-125	20	M
Beryllium	ND	100	100	105	130	mg/Kg	105	130	21.3	75-125	20	M,D
Cadmium	0.50	100	100	98.1	124	mg/Kg	98	124	23.3	75-125	20	M,D
Chromium	19.8	100	100	121	154	mg/Kg	101	134	24.0	75-125	20	M,D
Cobalt	5.84	100	100	110	132	mg/Kg	104	126	18.2	75-125	20	M
Copper	26.6	100	100	138	166	mg/Kg	111	139	18.4	75-125	20	M
Lead	222	100	100	348	480	mg/Kg	126	258	31.9	75-125	20	M,M,D

QCBatchID: <u>QC1172831</u>	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/26/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1172831MS1, QC1172831MSD1											Source: 384549-001	
Molybdenum	0.62	100	100	88.1	107	mg/Kg	87	106	19.4	75-125	20	
Nickel	21.3	100	100	122	158	mg/Kg	101	137	25.7	75-125	20	M,D
Selenium	ND	100	100	90.1	110	mg/Kg	90	110	19.9	75-125	20	
Silver	ND	100	100	94.4	116	mg/Kg	94	116	20.5	75-125	20	M,D
Thallium	ND	100	100	99.0	117	mg/Kg	99	117	16.7	75-125	20	
Vanadium	26.4	100	100	130	164	mg/Kg	104	138	23.1	75-125	20	M,D
Zinc	93.5	100	100	189	253	mg/Kg	96	160	29.0	75-125	20	M,D

QCBatchID: <u>QC1172858</u>	Analyst: JParedes	Method: EPA 7471A
Matrix: Solid	Analyzed: 11/28/2016	Instrument: AAICP-HG1

Blank Summary

Analyte	Blank Result	Units	RDL	Notes
QC1172858MB1				
Mercury	ND	mg/Kg	0.14	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1172858LCS1											
Mercury	0.83		0.85		mg/Kg	102			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1172858MS1, QC1172858MSD1												
Mercury	0.09	0.83	0.83	0.90	0.83	mg/Kg	98	89	8.1	75-125	20	Source: 384546-021

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

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384548

Project Number: 283192
 Site: 914 W. Grand

Subcontract Laboratory:
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 1108 W. Barkley
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Results due: Report Level: II

Please send report to: Will Rice (will.rice@ctberk.com)

*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
EB-1 (0-1)	11/09 13:50	Soil	6010-T22 MET	283192-001	
EB-1 (0-1)	11/09 13:50	Soil	6010-T22	283192-001	
EB-1 (0-1)	11/09 13:50	Soil	T22/HG	283192-001	
EB-1 (2-3)	11/09 13:50	Soil	6010-T22 MET	283192-002	
EB-1 (2-3)	11/09 13:50	Soil	6010-T22	283192-002	
EB-1 (2-3)	11/09 13:50	Soil	T22/HG	283192-002	
EB-2 (0-1)	11/09 14:02	Soil	6010-T22 MET	283192-004	
EB-2 (0-1)	11/09 14:02	Soil	6010-T22	283192-004	
EB-2 (0-1)	11/09 14:02	Soil	T22/HG	283192-004	
EB-2 (2-3)	11/09 14:02	Soil	6010-T22 MET	283192-005	
EB-2 (2-3)	11/09 14:02	Soil	6010-T22	283192-005	
EB-2 (2-3)	11/09 14:02	Soil	T22/HG	283192-005	
EB-3 (0-1)	11/09 12:47	Soil	6010-T22 MET	283192-007	
EB-3 (0-1)	11/09 12:47	Soil	6010-T22	283192-007	
EB-3 (0-1)	11/09 12:47	Soil	T22/HG	283192-007	
EB-3 (2-3)	11/09 12:47	Soil	6010-T22 MET	283192-008	
EB-3 (2-3)	11/09 12:47	Soil	6010-T22	283192-008	
EB-3 (2-3)	11/09 12:47	Soil	T22/HG	283192-008	
EB-4 (0-1)	11/09 11:51	Soil	6010-T22 MET	283192-010	
EB-4 (0-1)	11/09 11:51	Soil	6010-T22	283192-010	
EB-4 (0-1)	11/09 11:51	Soil	T22/HG	283192-010	
EB-4 (2-3)	11/09 11:54	Soil	6010-T22 MET	283192-011	
EB-4 (2-3)	11/09 11:54	Soil	6010-T22	283192-011	
EB-4 (2-3)	11/09 11:54	Soil	T22/HG	283192-011	
EB-5 (0-1)	11/09 11:23	Soil	6010-T22 MET	283192-016	
EB-5 (0-1)	11/09 11:23	Soil	6010-T22	283192-016	
EB-5 (0-1)	11/09 11:23	Soil	T22/HG	283192-016	
EB-5 (2-3)	11/09 11:23	Soil	6010-T22 MET	283192-017	
EB-5 (2-3)	11/09 11:23	Soil	6010-T22	283192-017	
EB-5 (2-3)	11/09 11:23	Soil	T22/HG	283192-017	
EB-9 (13-13.5)	11/09 15:33	Soil	6010-T22 MET	283192-024	

Curtis & Tompkins, Ltd.
 Analytical Laboratories, Since 1878
 2323 Fifth Street
 Berkeley, CA 94710
 (510) 486-0900
 (510) 486-0532

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
EB-9 (13-13.5)	11/09 15:33	Soil	6010-T22	283192-024	
EB-9 (13-13.5)	11/09 15:33	Soil	T22/HG	283192-024	
EB-17 (0-1)	11/09 10:50	Soil	6010-T22 MET	283192-044	
EB-17 (0-1)	11/09 10:50	Soil	6010-T22	283192-044	
EB-17 (0-1)	11/09 10:50	Soil	T22/HG	283192-044	
EB-14 (6-7)	11/09 15:20	Soil	6010-T22 MET	283192-049	
EB-14 (6-7)	11/09 15:20	Soil	6010-T22	283192-049	
EB-14 (6-7)	11/09 15:20	Soil	T22/HG	283192-049	
EB-7 (0-1)	11/09 10:19	Soil	6010-T22 MET	283192-055	
EB-7 (0-1)	11/09 10:19	Soil	6010-T22	283192-055	
EB-7 (0-1)	11/09 10:19	Soil	T22/HG	283192-055	

Notes:	Relinquished By:	Received By:
	<i>Curtis</i>	<i>Taylor</i>
	Date/Time: 11/17/16 @ 16:30	Date/Time: 11/18/16 820
	Date/Time:	Date/Time:

Signature on this form constitutes a firm Purchase Order for the services requested above.



SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: C&T Project: 283192

Date Received: 11/18/16 Sampler's Name Present: Yes No

Sample(s) received in a cooler? Yes How many? 1 No (skip section 2) Sample Temp (°C): _____

Sample Temp (°C) from each cooler: #1: 5.7°C #2: _____ #3: _____ #4: _____

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information: _____

Section 2

Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam

Paper None Other _____

Cooler Temp (°C): #1: 0.1°C #2: _____ #3: _____ #4: _____

Section 3	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were sample IDs present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were sampling dates & times present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was a relinquished signature present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the tests required clearly indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If Yes – were they intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were all samples sealed in plastic bags?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Did all samples arrive intact? If no, indicate below.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were correct containers used for the tests required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was there headspace in VOA vials?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were the containers labeled with correct preservatives?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Section 4

Explanations/Comments: _____

Section 5

For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____

Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: Taylor N... Date: 11/15/16



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Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 283234
ANALYTICAL REPORT

Cornerstone Earth Group
1259 Oakmead Pkwy
Sunnyvale, CA 94085

Project : 914-1-3
Location : 914 W. Grand
Level : II

Table with 4 columns: Sample ID, Lab ID, Sample ID, Lab ID. Lists various sample and lab identifiers such as EB-11 (0-1), EB-16 (12-12.5), etc.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Handwritten signature of Will Rice

Signature: _____

Date: 12/05/2016

Will Rice
Project Manager
will.rice@ctberk.com

CASE NARRATIVE

Laboratory number: 283234
Client: Cornerstone Earth Group
Project: 914-1-3
Location: 914 W. Grand
Request Date: 11/10/16
Samples Received: 11/10/16

This data package contains sample and QC results for sixteen soil samples and seven water samples, requested for the above referenced project on 11/10/16. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Water:

EB-8 (lab # 283234-028) was analyzed with more than 1 mL of headspace in the VOA vial. EB-8 (lab # 283234-028) had pH greater than 2. No other analytical problems were encountered.

TPH-Purgeables and/or BTXE by GC (EPA 8015B) Soil:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

EB-10 (0-1) (lab # 283234-005) and EB-16 (0-1) (lab # 283234-014) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:

High response was observed for 1,1-dichloroethene in the CCV analyzed 11/16/16 14:00; affected data was qualified with "b". Low surrogate recovery was observed for 1,2-dichloroethane-d4 in the method blank for batch 241459. A number of samples had pH greater than 2. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:

Matrix spikes QC860837, QC860838 (batch 241442) were not reported because the parent sample was reanalyzed in another batch. High surrogate recoveries were observed for bromofluorobenzene in EB-12 (2-3) (lab # 283234-011) and EB-12 (4.5-5) (lab # 283234-012). EB-16 (12-12.5) (lab # 283234-018) was diluted due to high hydrocarbons. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

Matrix spikes QC860000, QC860001 (batch 241240) were not reported because the concentrations of target analytes in the parent sample were more than four times the amount spiked, rendering spike recoveries not meaningful. High surrogate recovery was observed for nitrobenzene-d5 in the LCS for batch 241240. High surrogate recovery was observed for terphenyl-d14 in the LCS for batch 241240. EB-10 (0-1) (lab # 283234-005) was diluted due to the dark and

CASE NARRATIVE

Laboratory number: 283234
Client: Cornerstone Earth Group
Project: 914-1-3
Location: 914 W. Grand
Request Date: 11/10/16
Samples Received: 11/10/16

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

viscous nature of the sample extract. No other analytical problems were encountered.

Pesticides (EPA 8081A):

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. All samples underwent florisol cleanup using EPA Method 3620C. Response exceeding the instrument's linear range was observed for TCMX in EB-11 (0-1) (lab # 283234-001); affected data was qualified with "b". High surrogate recovery was observed for TCMX in EB-11 (0-1) (lab # 283234-001); the corresponding decachlorobiphenyl surrogate recovery was within limits, and no target analytes were detected at or above RL in the sample. No other analytical problems were encountered.

PCBs (EPA 8082):

All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. Matrix spikes QC860786, QC860787 (batch 241437) were not reported because the parent sample required a dilution that would have diluted out the spikes. High surrogate recovery was observed for TCMX in EB-16 (12-12.5) (lab # 283234-018); no target analytes were detected in the sample. High surrogate recovery was observed for decachlorobiphenyl in EB-16 (12-12.5) (lab # 283234-018); no target analytes were detected in the sample. No other analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7470A):

No analytical problems were encountered.

Cornerstone Earth Group, Inc. 1270 Springbrook RD #101 Walnut Creek, CA 94597 (925) 988-9500 Phone (925) 988-9501 FAX Project Name 914 W. Grand Site: Oakland Project Number: 914-1-3		Project Manager: Peter Langtry Tel/Fax:		Site Sampler: Randall/Brent Lab Contact: Will Rice		Date:		COC No: _____ of _____ COCs											
Analysis Turnaround Time		TAT if different from Below _____		<input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Laboratory's Job No.		Laboratory's Sample Specific Notes:											
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	CAM 17 Metals (6000/7000)	PAHs (8270 SIM)	OCPS (8081)	PCBs (8082)	TPHd/TPHo (8015M)	TPHg/VOCs (8260B)								
1 BB-11 (0-1)	11/10/16	925	LIMBZ	Soil	1	X	X	X	X	X									
2 BB-11 (2-3)		935	LIMBZ	Soil	4	X	X	X	X	X									
3 BB-11 (4.5-5)		935			7														HOLD
4 BB-11 (9.5-10)		935			4														HOLD
5 BB-10 (0-1)		1091			4	X	X		X										
6 BB-10 (4.5-5)		1041			4				X	X									
7 BB-10 (9.5-10)		1041			4				X	X									
8 BB-10 (14.5-15)		1116			4														HOLD
9 BB-12 (2-3)		1141	LIMBZ		1														
10 BB-10 (2-3)		1141	LIMBZ		4				X	X									
11 BB-12 (2-3)		1223			4				X	X									
12 BB-12 (4.5-5)		1223			4				X	X									
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						Sample Disposal						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Possible Hazard Identification						<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						Special Instructions/QC Requirements & Comments: TPH D/TPH O WITHOUT SILICA GEL CLEAN UP							
Please send reports to Cheiny@cornerstoneearth.com, plangtry@cornerstoneearth.com, and rbleichner@cornerstoneearth.com																			
Relinquished by: [Signature]		Company: Cornerstone Earth Group		Date/Time: 11/10/16 1552		Received by: [Signature]		Company: CBT		Date/Time: 11/10/16 1552									
Relinquished by: [Signature]		Company: CBT		Date/Time: 11/10/16 1633		Received by: [Signature]		Company: CBT		Date/Time: 11/10/16 1633									
Relinquished by: [Signature]		Company:		Date/Time:		Received by:		Company:		Date/Time:									

Cornerstone Earth Group, Inc. 1270 Springbrook RD #101 Walnut Creek, CA 94597 (925) 988-9500 Phone (925) 988-9501 FAX Project Name 914 W. Grand Site: Oakland Project Number: 914-1-3		Project Manager: Peter Langtry Tel/Fax:		Site Sampler: Randall/Brent Lab Contact: Will Rice		Date:		COC No: _____ of _____ COCs							
Analysis Turnaround Time TAT if different from Below _____ <input checked="" type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day								Laboratory's Job No.							
								Laboratory's Sample Specific Notes:							
	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	CAM 17 Meats (6000/7000)	PAHs (8270 SIM)	OCPS (8081)	PCBs (8082)	TPHd/TPHo (8015M)	TPHg/VOCs (8260B)			
13	BB-12 (1.5-15)	11/10/16	1215	LINER		1								HOLD	
14	BB-16 (0-1)	↓	1125	↓		1		XX		X				HOLD	
15	BB-16 (2-3)		1125	LINER		4					XX				
16	BB-16 (4.5-5)		1125	↓		4					XX				
17	BB-16 (9.5-10)		1131	↓		4									HOLD
18	BB-16 (12-12.5)		1150	↓		4		XX	X	XX					
19	BB-16 (14.5-13)		1155	LINER		1									HOLD
20	BB-15 (0.5-1.5)		1301	↓		1									HOLD
21	BB-15 (2-3)		1304	LINER		4					XX				
22	BB-15 (4.5-5)		1304	↓		4					XX				
23	BB-15 (9.5-10)		1313	↓		4					XX				
24	BB-15 (1.5-15)	1317	LINER		1									HOLD	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____															
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Special Instructions/QC Requirements & Comments: TPH D/TPH O <u>WITHOUT SILICA GEL CLEAN UP</u>															
Please send reports to Cheiny@cornerstoneearth.com, plangtry@cornerstoneearth.com, and rbleichner@cornerstoneearth.com															
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:										
	Cornerstone Earth Group	11/10/16 1557		CBT	11/10/16 1557										
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:										
	CBT	11/10/16 1633		CBT	11/10/16 1633										
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:										

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 283234 Date Received 11/10/16 Number of coolers 2
 Client CovherStone Project 914 W. Grand, Oakland
 Date Opened 11/16 By (print) CB (sign) [Signature]
 Date Logged in ✓ By (print) [Signature] (sign) [Signature]
 Date Labeled ✓ By (print) CB (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
- Shipping info _____
- 2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____
- 2B. Were custody seals intact upon arrival? _____ YES NO N/A
3. Were custody papers dry and intact when received? _____ YES NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) _____ YES NO
6. Indicate the packing in cooler: (if other, describe) _____
 Bubble Wrap Foam blocks Bags None
 Cloth material Cardboard Styrofoam Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C
 Type of ice used: Wet Blue/Gel None Temp(°C) 4.8, 3.1
 Temperature blank(s) included? Thermometer# _____ IR Gun# B
 Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO
 If YES, what time were they transferred to freezer? 11/10/16 @ 1845
9. Did all bottles arrive unbroken/unopened? _____ YES NO
10. Are there any missing / extra samples? _____ YES NO
11. Are samples in the appropriate containers for indicated tests? _____ YES NO
12. Are sample labels present, in good condition and complete? _____ YES NO
13. Do the sample labels agree with custody papers? _____ YES NO
14. Was sufficient amount of sample sent for tests requested? _____ YES NO
15. Are the samples appropriately preserved? _____ YES NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A
17. Did you document your preservative check? (pH strip lot# _____) YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES NO
 If YES, Who was called? _____ By _____ Date: _____

COMMENTS
10.) Received 2 extra samples not listed on the COC, labeled as "EB-12 (9.5-10)" & "EB-11 (14.5-15)" respectively.

Detections Summary for 283234

Results for any subcontracted analyses are not included in this summary.

Client : Cornerstone Earth Group
 Project : 914-1-3
 Location : 914 W. Grand

Client Sample ID : EB-11 (0-1) Laboratory Sample ID : 283234-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Naphthalene	2.6	J	5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
4,4'-DDE	1.1	#,C,J	1.7	0.37	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B

Client Sample ID : EB-11 (2-3) Laboratory Sample ID : 283234-002

No Detections

Client Sample ID : EB-10 (0-1) Laboratory Sample ID : 283234-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	8.4	Y	3.0		mg/Kg	As Recd	3.000	EPA 8015B	EPA 3550B
Motor Oil C24-C36	130		15		mg/Kg	As Recd	3.000	EPA 8015B	EPA 3550B

Client Sample ID : EB-10 (4.5-5) Laboratory Sample ID : 283234-006

No Detections

Client Sample ID : EB-10 (9.5-10) Laboratory Sample ID : 283234-007

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1.6	Y	0.99		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B

Client Sample ID : EB-10 (2-3) Laboratory Sample ID : 283234-010

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	2.2	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B

Client Sample ID : EB-12 (2-3) Laboratory Sample ID : 283234-011

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1.2	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Acetone	73		20		ug/Kg	As Recd	0.9843	EPA 8260B	EPA 5035
2-Butanone	13		9.8		ug/Kg	As Recd	0.9843	EPA 8260B	EPA 5035

Client Sample ID : EB-12 (4.5-5)

Laboratory Sample ID :

283234-012

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	23		18		ug/Kg	As Recd	0.9141	EPA 8260B	EPA 5035

Client Sample ID : EB-16 (0-1)

Laboratory Sample ID :

283234-014

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	51	Y	10		mg/Kg	As Recd	10.00	EPA 8015B	EPA 3550B
Motor Oil C24-C36	540		50		mg/Kg	As Recd	10.00	EPA 8015B	EPA 3550B
Naphthalene	1.1	J	5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B

Client Sample ID : EB-16 (2-3)

Laboratory Sample ID :

283234-015

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	43		20		ug/Kg	As Recd	0.9823	EPA 8260B	EPA 5035

Client Sample ID : EB-16 (4.5-5)

Laboratory Sample ID :

283234-016

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	38		19		ug/Kg	As Recd	0.9709	EPA 8260B	EPA 5035

Client Sample ID : EB-16 (12-12.5)

Laboratory Sample ID :

283234-018

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	670	Y	45		mg/Kg	As Recd	227.3	EPA 8015B	EPA 5030B
Diesel C10-C24	240	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Diesel C10-C24	190	Y	1.0		mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B
Isopropylbenzene	260		250		ug/Kg	As Recd	50.00	EPA 8260B	EPA 5035
Propylbenzene	1,500		250		ug/Kg	As Recd	50.00	EPA 8260B	EPA 5035
sec-Butylbenzene	520		250		ug/Kg	As Recd	50.00	EPA 8260B	EPA 5035
n-Butylbenzene	1,900		250		ug/Kg	As Recd	50.00	EPA 8260B	EPA 5035
Naphthalene	1,200		31	6.3	ug/Kg	As Recd	6.250	EPA 8270C-SIM	EPA 3550B
Acenaphthylene	21		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Acenaphthene	30		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Fluorene	37		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Phenanthrene	71		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Anthracene	13		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Fluoranthene	18		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Pyrene	25		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Benzo(a)anthracene	6.3		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Chrysene	6.9		5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Benzo(b)fluoranthene	2.4	J	5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Benzo(a)pyrene	2.7	J	5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Benzo(g,h,i)perylene	3.1	J	5.0	1.0	ug/Kg	As Recd	1.000	EPA 8270C-SIM	EPA 3550B
Endosulfan I	1.1	C	0.85	0.22	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B

Client Sample ID : EB-15 (2-3) Laboratory Sample ID : 283234-021

No Detections

Client Sample ID : EB-15 (4.5-5) Laboratory Sample ID : 283234-022

No Detections

Client Sample ID : EB-15 (9.5-10) Laboratory Sample ID : 283234-023

No Detections

Client Sample ID : GW-1 Laboratory Sample ID : 283234-025

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	750	Y	50		ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	370		300		ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
m,p-Xylenes	1.0		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
o-Xylene	0.7		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2,4-Trimethylbenzene	1.0		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : GW-2 Laboratory Sample ID : 283234-026

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	98	Y	50		ug/L	As Recd	1.000	EPA 8015B	EPA 3520C

Client Sample ID : EB-7 Laboratory Sample ID : 283234-027

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	11		10		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : EB-8 Laboratory Sample ID : 283234-028

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	180	Y	50		ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
m,p-Xylenes	0.6		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : EB-10

Laboratory Sample ID :

283234-029

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	1,300	Y	50		ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	1,800	Y	50		ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Diesel C10-C24	850	Y	50		ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Benzene	1.4		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Toluene	0.5		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Ethylbenzene	60		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
m,p-Xylenes	5.4		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Isopropylbenzene	34		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Propylbenzene	98		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,3,5-Trimethylbenzene	6.9		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2,4-Trimethylbenzene	28		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
sec-Butylbenzene	12		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
para-Isopropyl Toluene	1.2		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
n-Butylbenzene	20		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Naphthalene	40		2.0		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : EB-9

Laboratory Sample ID :

283234-030

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	240	Y	50		ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	1,000	Y	50		ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Diesel C10-C24	490	Y	50		ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Acetone	15		10		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Ethylbenzene	2.3		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Isopropylbenzene	6.6		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Propylbenzene	21		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
sec-Butylbenzene	1.2		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Naphthalene	4.6		2.0		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : GW-3

Laboratory Sample ID :

283234-031

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Gasoline C7-C12	61		50		ug/L	As Recd	1.000	EPA 8015B	EPA 5030B
Diesel C10-C24	790	Y	50		ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Ethylbenzene	0.6		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Propylbenzene	1.5		0.5		ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : EB-11 (14.5-15)

Laboratory Sample ID :

283234-033

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Acetone	170		20		ug/Kg	As Recd	0.9960	EPA 8260B	EPA 5030B

= CCV drift outside limits; average CCV drift within limits per method requirement

C = Presence confirmed, but RPD between columns exceeds 40%

J = Estimated value

Y = Sample exhibits chromatographic pattern which does not resemble standard

Total Volatile Hydrocarbons

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	11/10/16
Units:	ug/L	Received:	11/10/16
Diln Fac:	1.000		

Field ID:	EB-8	Batch#:	241496
Type:	SAMPLE	Analyzed:	11/18/16
Lab ID:	283234-028		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	80-132

Field ID:	EB-10	Batch#:	241448
Type:	SAMPLE	Analyzed:	11/16/16
Lab ID:	283234-029		

Analyte	Result	RL
Gasoline C7-C12	1,300 Y	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	80-132

Field ID:	EB-9	Batch#:	241448
Type:	SAMPLE	Analyzed:	11/16/16
Lab ID:	283234-030		

Analyte	Result	RL
Gasoline C7-C12	240 Y	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	80-132

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860822	Batch#:	241448
Matrix:	Water	Analyzed:	11/16/16
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,083	108	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	80-132

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	GW-1	Batch#:	241448
MSS Lab ID:	283234-025	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L	Analyzed:	11/16/16
Diln Fac:	1.000		

Type: MS Lab ID: QC860825

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	31.90	2,000	2,007	99	76-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	80-132

Type: MSD Lab ID: QC860826

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,975	97	76-120	2	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	80-132

RPD= Relative Percent Difference

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC861003	Batch#:	241496
Matrix:	Water	Analyzed:	11/17/16
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	980.9	98	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	80-132

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	241496
MSS Lab ID:	283458-001	Sampled:	11/15/16
Matrix:	Water	Received:	11/16/16
Units:	ug/L	Analyzed:	11/18/16
Diln Fac:	1.000		

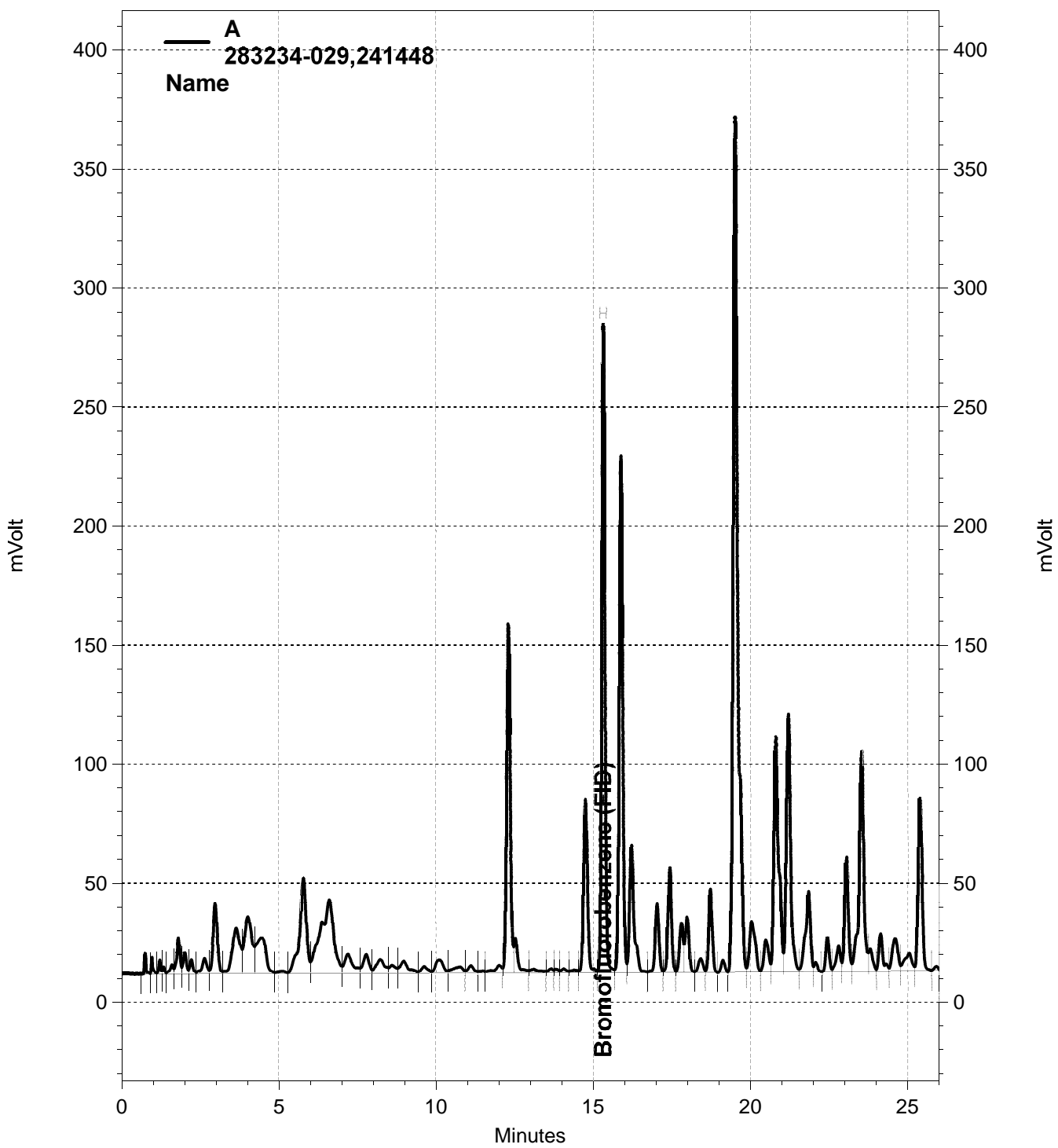
Type: MS Lab ID: QC861006

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	39.66	2,000	2,036	100	76-120
Surrogate	%REC	Limits			
Bromofluorobenzene (FID)	114	80-132			

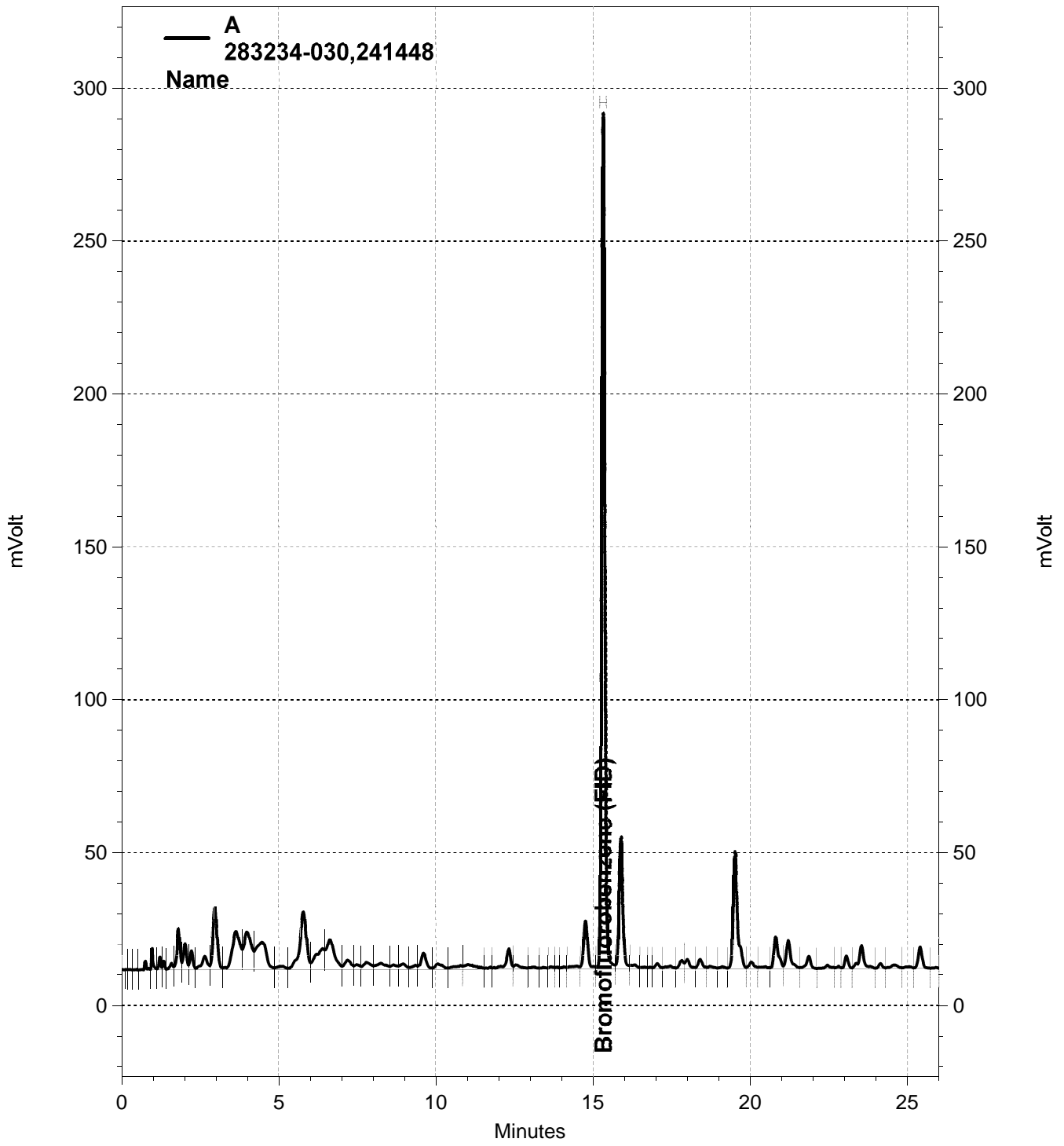
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Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,964	96	76-120	4	20
Surrogate	%REC	Limits				
Bromofluorobenzene (FID)	110	80-132				

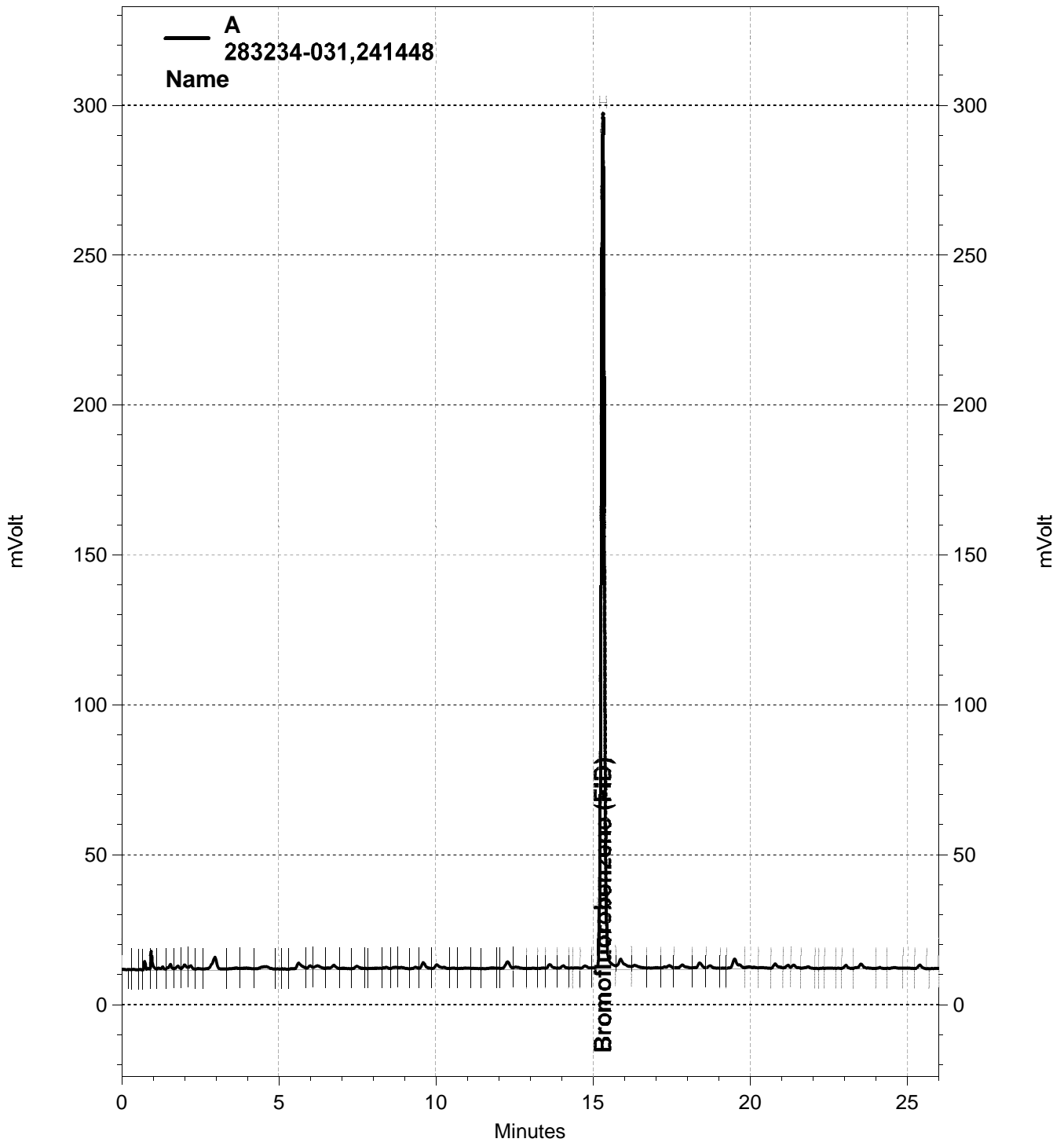
RPD= Relative Percent Difference



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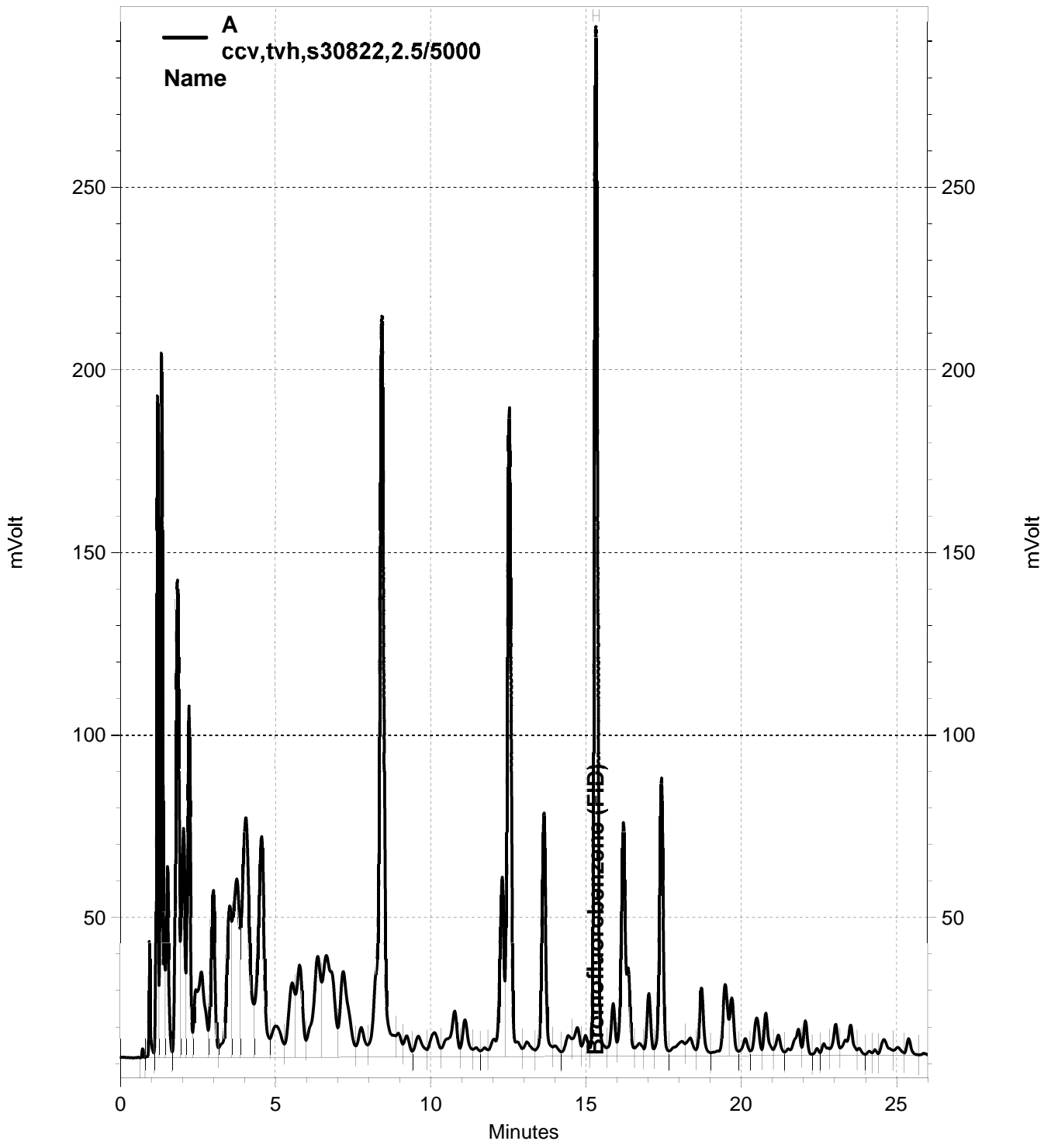


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Total Volatile Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/10/16
Units:	mg/Kg	Received:	11/10/16
Basis:	as received		

Field ID: EB-10 (4.5-5) Diln Fac: 1.000
 Type: SAMPLE Batch#: 241276
 Lab ID: 283234-006 Analyzed: 11/11/16

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	78-138

Field ID: EB-10 (9.5-10) Diln Fac: 1.000
 Type: SAMPLE Batch#: 241276
 Lab ID: 283234-007 Analyzed: 11/11/16

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	84	78-138

Field ID: EB-10 (2-3) Diln Fac: 1.000
 Type: SAMPLE Batch#: 241276
 Lab ID: 283234-010 Analyzed: 11/11/16

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	78-138

Field ID: EB-12 (2-3) Diln Fac: 1.000
 Type: SAMPLE Batch#: 241276
 Lab ID: 283234-011 Analyzed: 11/11/16

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	78-138

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/10/16
Units:	mg/Kg	Received:	11/10/16
Basis:	as received		

Field ID: EB-12 (4.5-5) Diln Fac: 1.000
 Type: SAMPLE Batch#: 241276
 Lab ID: 283234-012 Analyzed: 11/11/16

Analyte	Result	RL
Gasoline C7-C12	ND	0.95

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	87	78-138

Field ID: EB-16 (2-3) Diln Fac: 1.000
 Type: SAMPLE Batch#: 241276
 Lab ID: 283234-015 Analyzed: 11/11/16

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	78-138

Field ID: EB-16 (4.5-5) Diln Fac: 1.000
 Type: SAMPLE Batch#: 241276
 Lab ID: 283234-016 Analyzed: 11/11/16

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	88	78-138

Field ID: EB-16 (12-12.5) Diln Fac: 227.3
 Type: SAMPLE Batch#: 241341
 Lab ID: 283234-018 Analyzed: 11/15/16

Analyte	Result	RL
Gasoline C7-C12	670 Y	45

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	124	78-138

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/10/16
Units:	mg/Kg	Received:	11/10/16
Basis:	as received		

Field ID:	EB-15 (2-3)	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	241276
Lab ID:	283234-021	Analyzed:	11/11/16

Analyte	Result	RL
Gasoline C7-C12	ND	0.98

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	78-138

Field ID:	EB-15 (4.5-5)	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	241276
Lab ID:	283234-022	Analyzed:	11/11/16

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	88	78-138

Field ID:	EB-15 (9.5-10)	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	241276
Lab ID:	283234-023	Analyzed:	11/12/16

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	78-138

Field ID:	EB-11 (14.5-15)	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	241399
Lab ID:	283234-033	Analyzed:	11/16/16

Analyte	Result	RL
Gasoline C7-C12	ND	0.98

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	78-138

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860146	Batch#:	241276
Matrix:	Soil	Analyzed:	11/11/16
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.105	110	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	90	78-138

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	EB-6 (2-3)	Diln Fac:	1.000
MSS Lab ID:	283192-040	Batch#:	241276
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	11/12/16

Type: MS Lab ID: QC860147

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1105	9.524	7.904	82	50-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	78-138

Type: MSD Lab ID: QC860148

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.901	9.248	92	50-120	12	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	78-138

RPD= Relative Percent Difference

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860403	Batch#:	241341
Matrix:	Soil	Analyzed:	11/14/16
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.111	111	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	78-138

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	283261-001	Batch#:	241341
Matrix:	Soil	Sampled:	11/11/16
Units:	mg/Kg	Received:	11/11/16
Basis:	as received	Analyzed:	11/14/16

Type: MS Lab ID: QC860406

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.4805	9.709	9.142	89	50-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	78-138

Type: MSD Lab ID: QC860407

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.10	8.388	78	50-120	12	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	78-138

RPD= Relative Percent Difference

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860624	Batch#:	241399
Matrix:	Soil	Analyzed:	11/15/16
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.104	110	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	78-138

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	283358-002	Batch#:	241399
Matrix:	Soil	Sampled:	11/14/16
Units:	mg/Kg	Received:	11/14/16
Basis:	as received	Analyzed:	11/16/16

Type: MS Lab ID: QC860627

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.5752	9.434	6.148	59	50-120

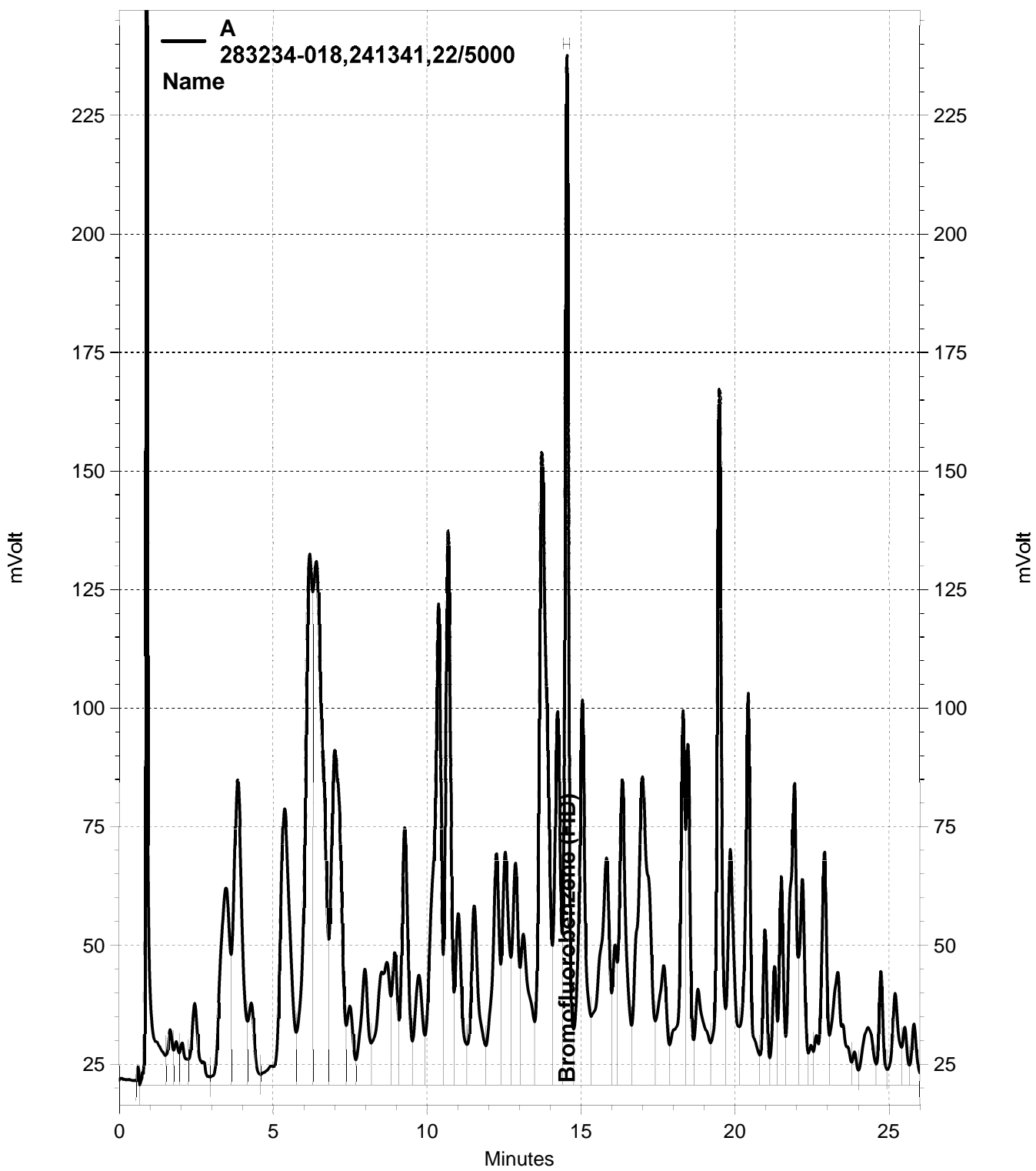
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	78-138

Type: MSD Lab ID: QC860628

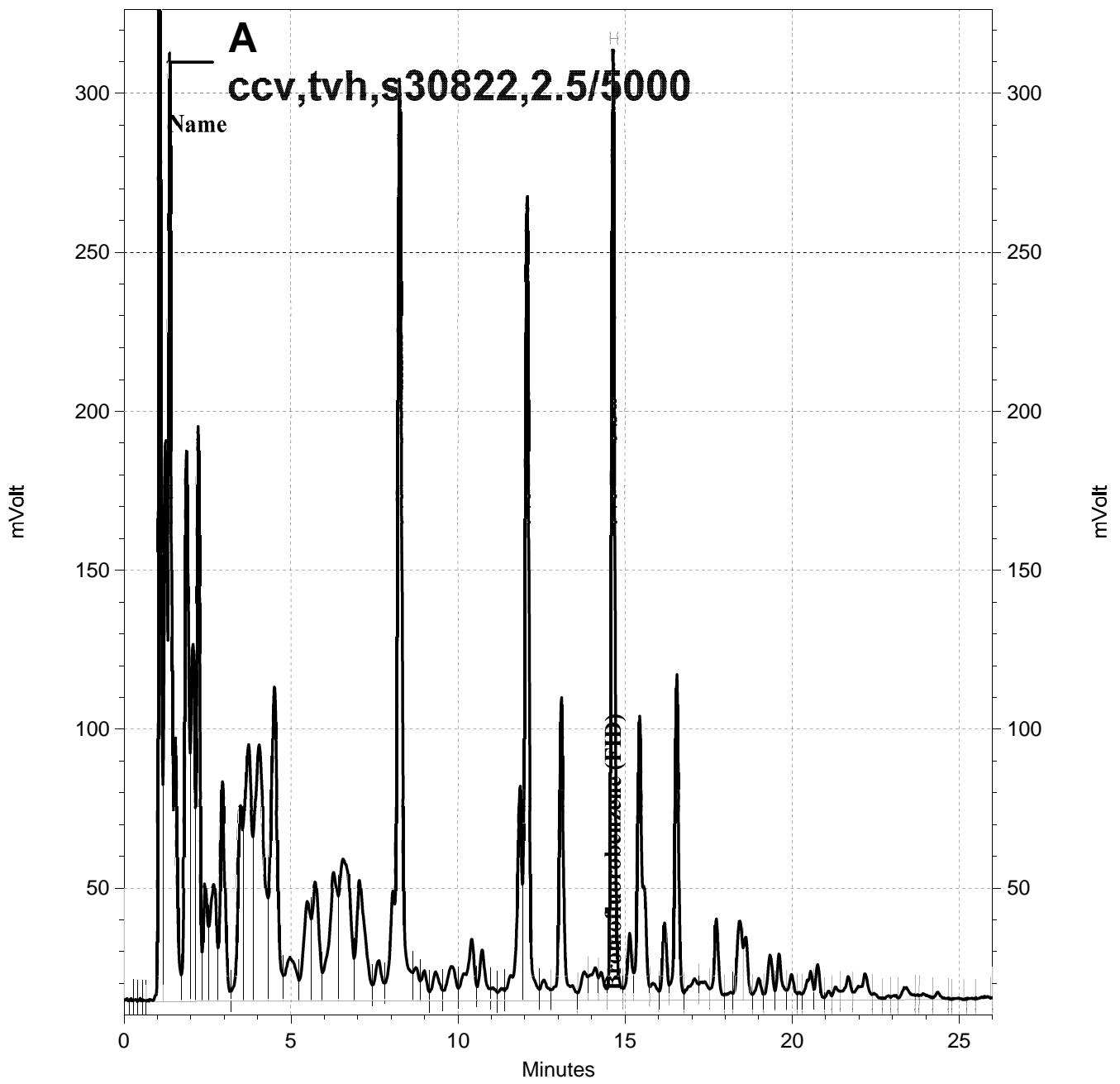
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.524	6.115	58	50-120	1	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	78-138

RPD= Relative Percent Difference



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Total Extractable Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3520C
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	11/10/16
Units:	ug/L	Received:	11/10/16
Diln Fac:	1.000	Prepared:	11/11/16
Batch#:	241307		

Type: BLANK Analyzed: 11/14/16
 Lab ID: QC860286 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50
Diesel C10-C24 (SGCU)	ND	50
Motor Oil C24-C36	ND	300
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	%REC	Limits
o-Terphenyl	104	67-136
o-Terphenyl (SGCU)	93	67-136

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Batch QC Report

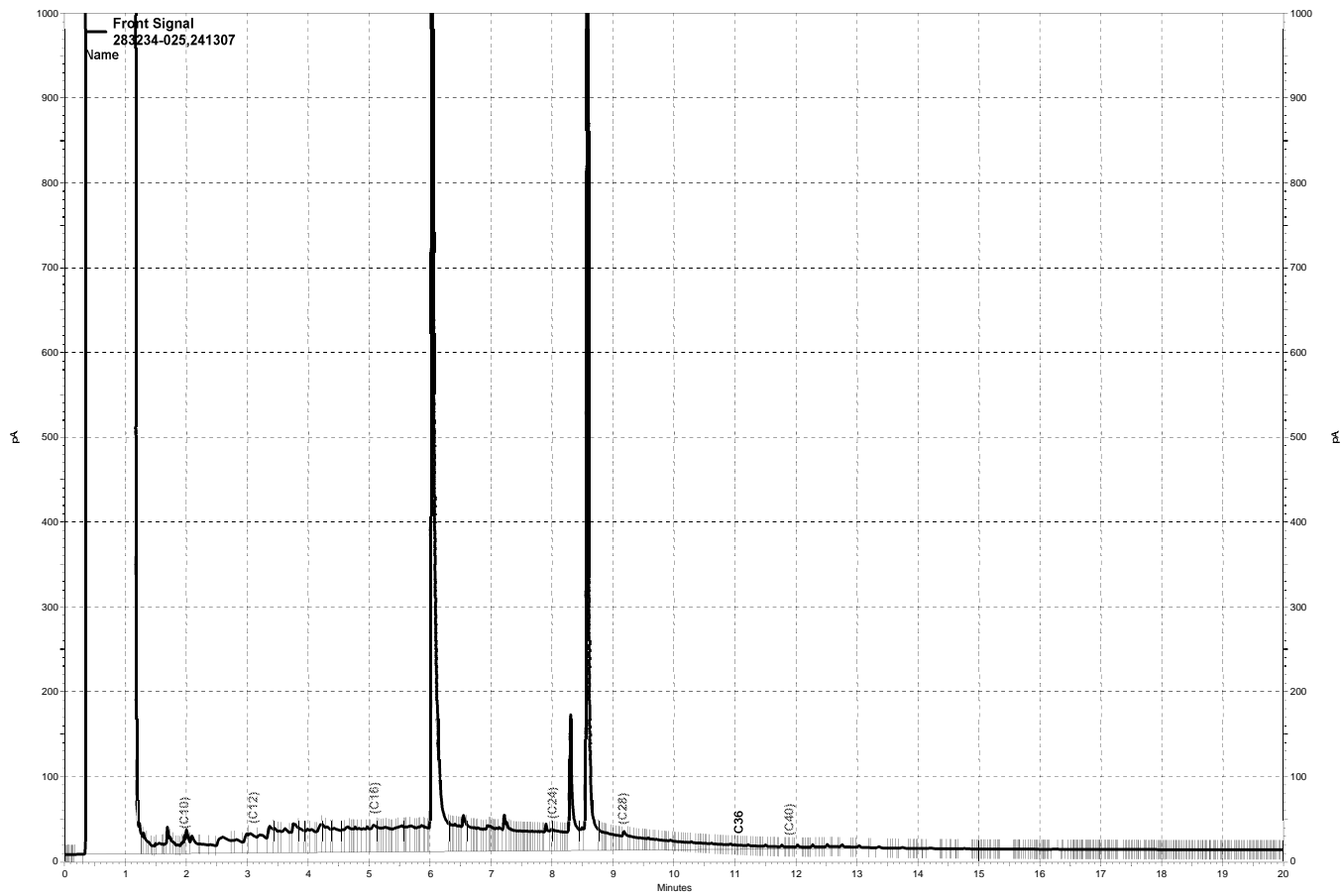
Total Extractable Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3520C
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860287	Batch#:	241307
Matrix:	Water	Prepared:	11/11/16
Units:	ug/L	Analyzed:	11/14/16

Cleanup Method: EPA 3630C

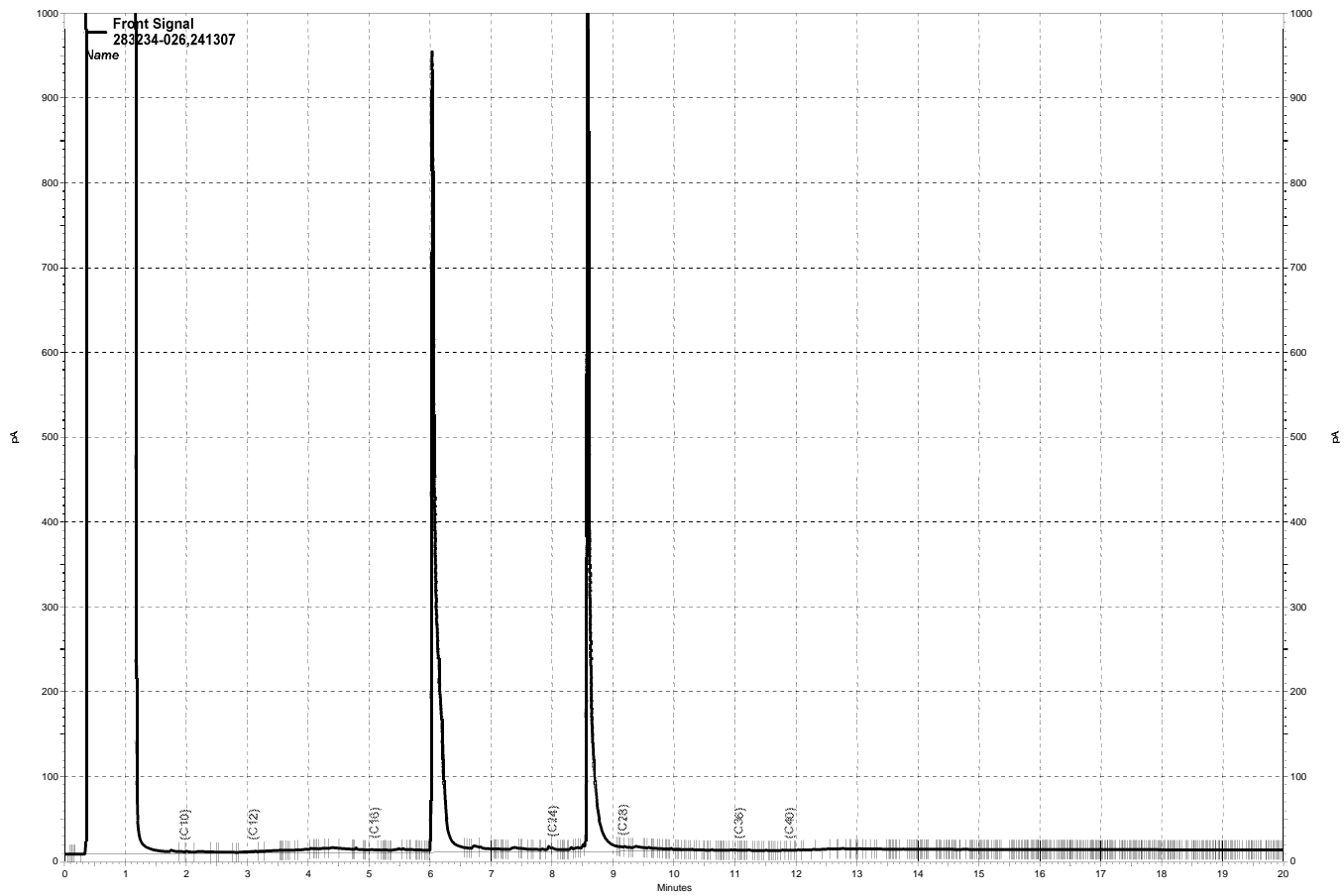
Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,408	96	60-121
Diesel C10-C24 (SGCU)	2,500	2,733	109	60-121

Surrogate	%REC	Limits
o-Terphenyl	89	67-136
o-Terphenyl (SGCU)	95	67-136

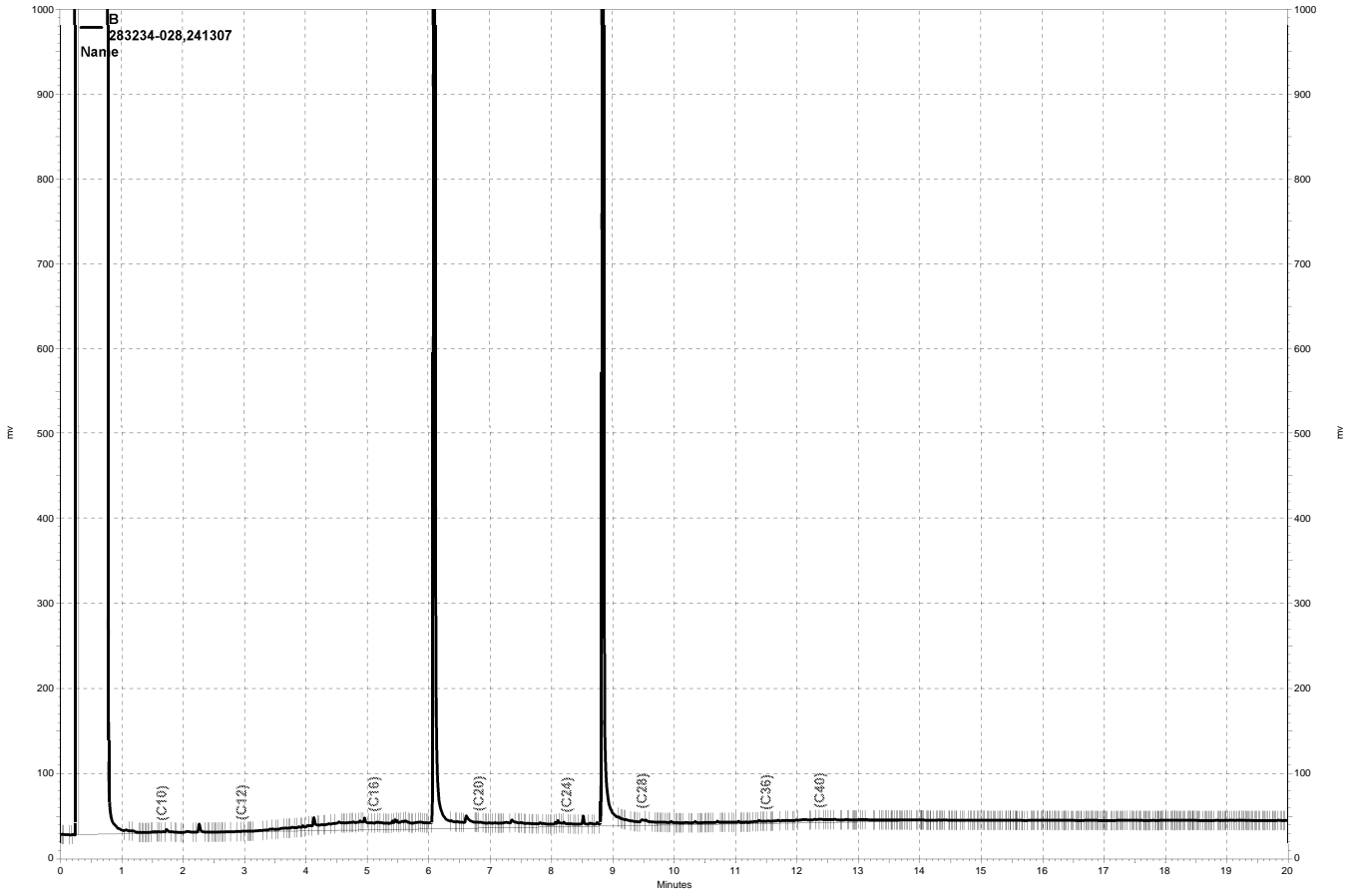
SGCU= Silica gel cleanup



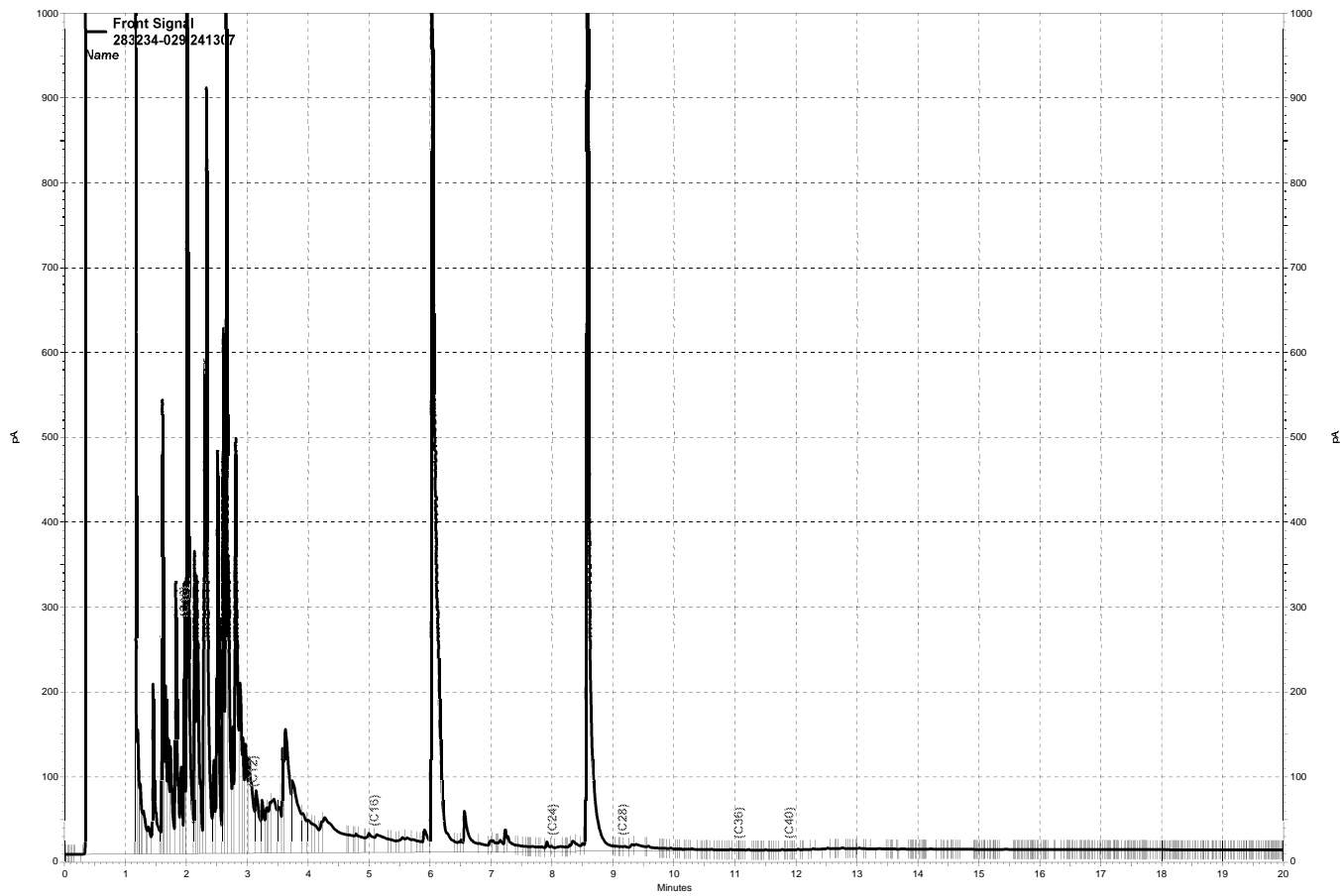
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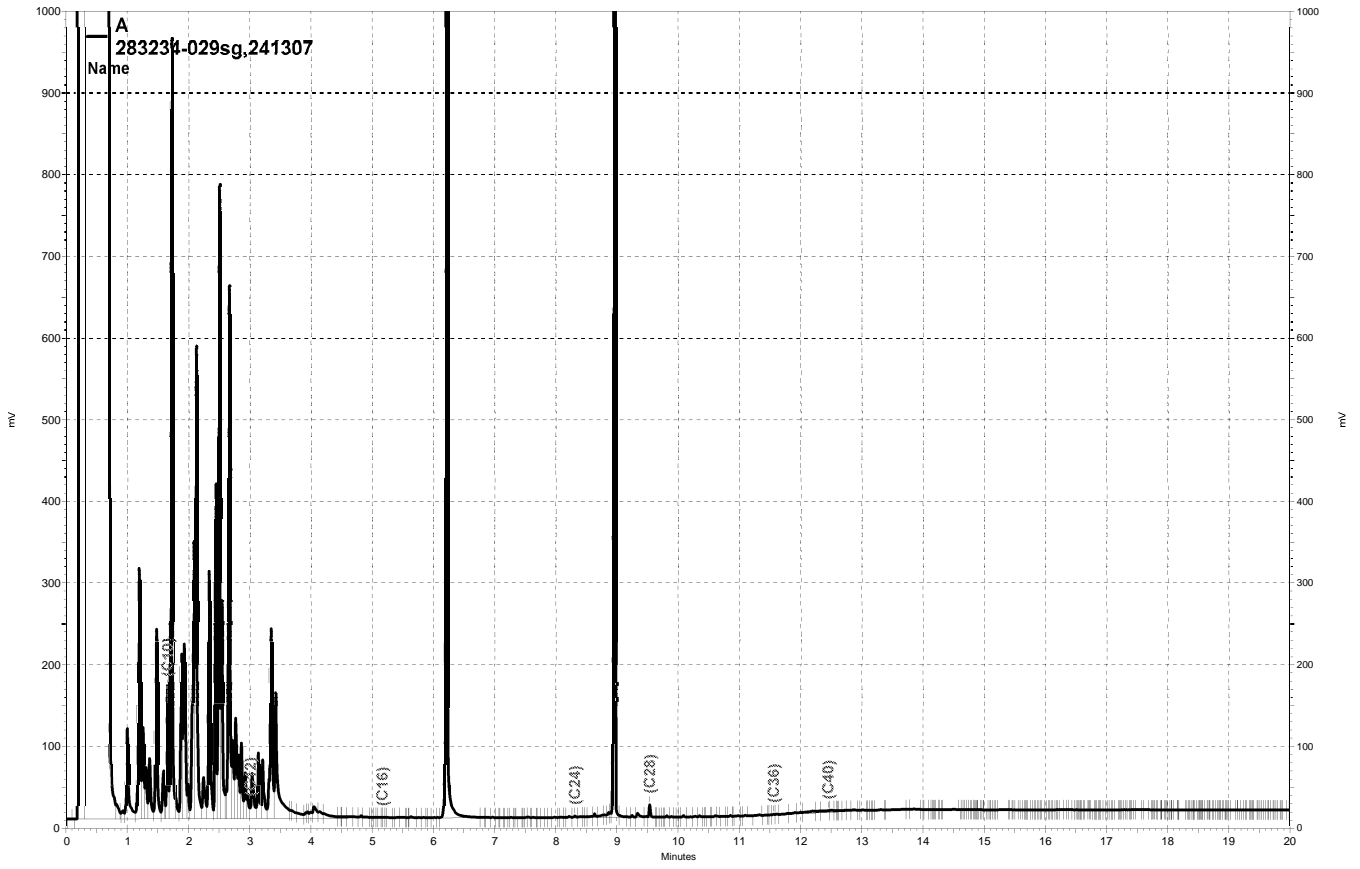
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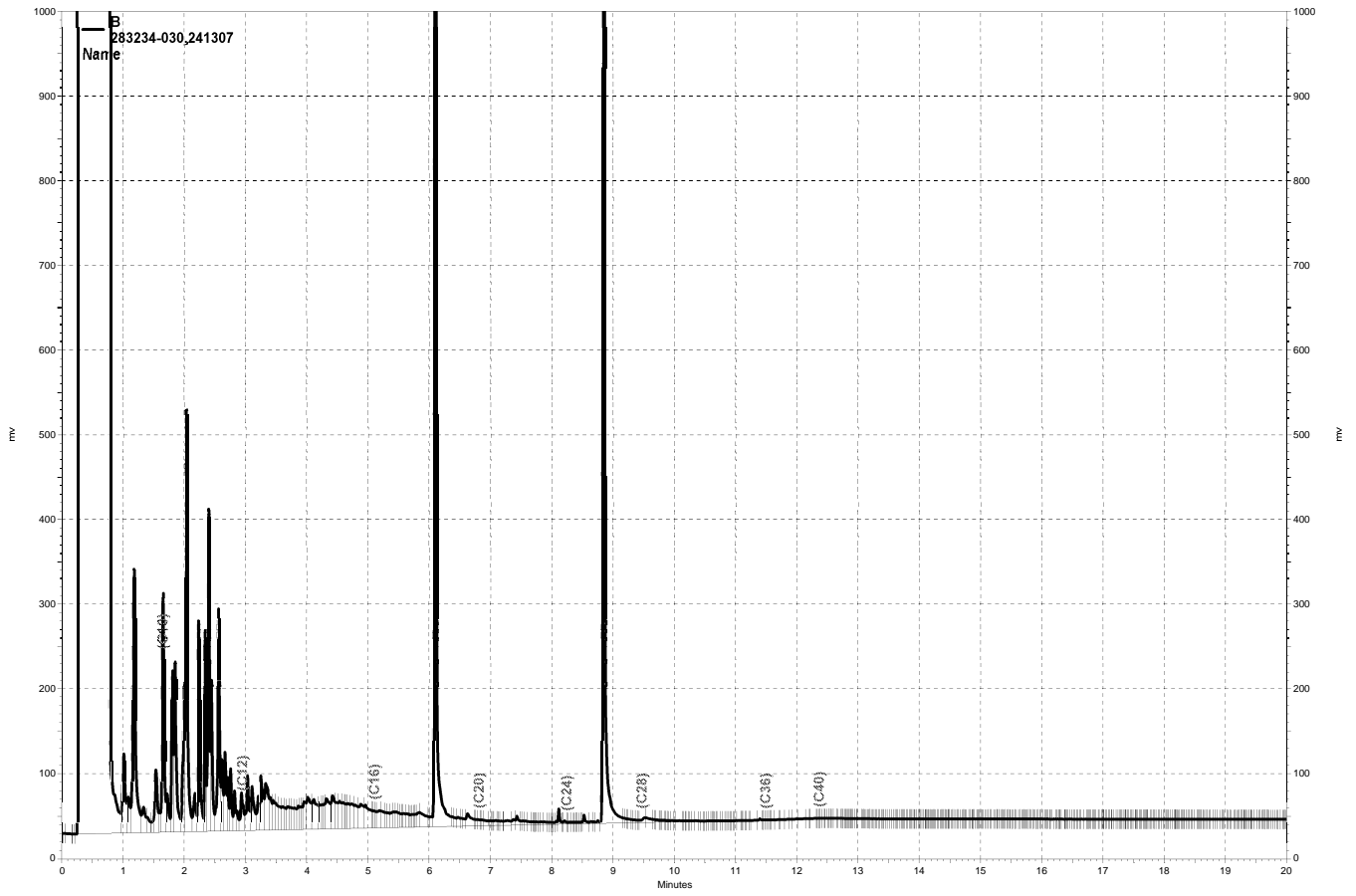
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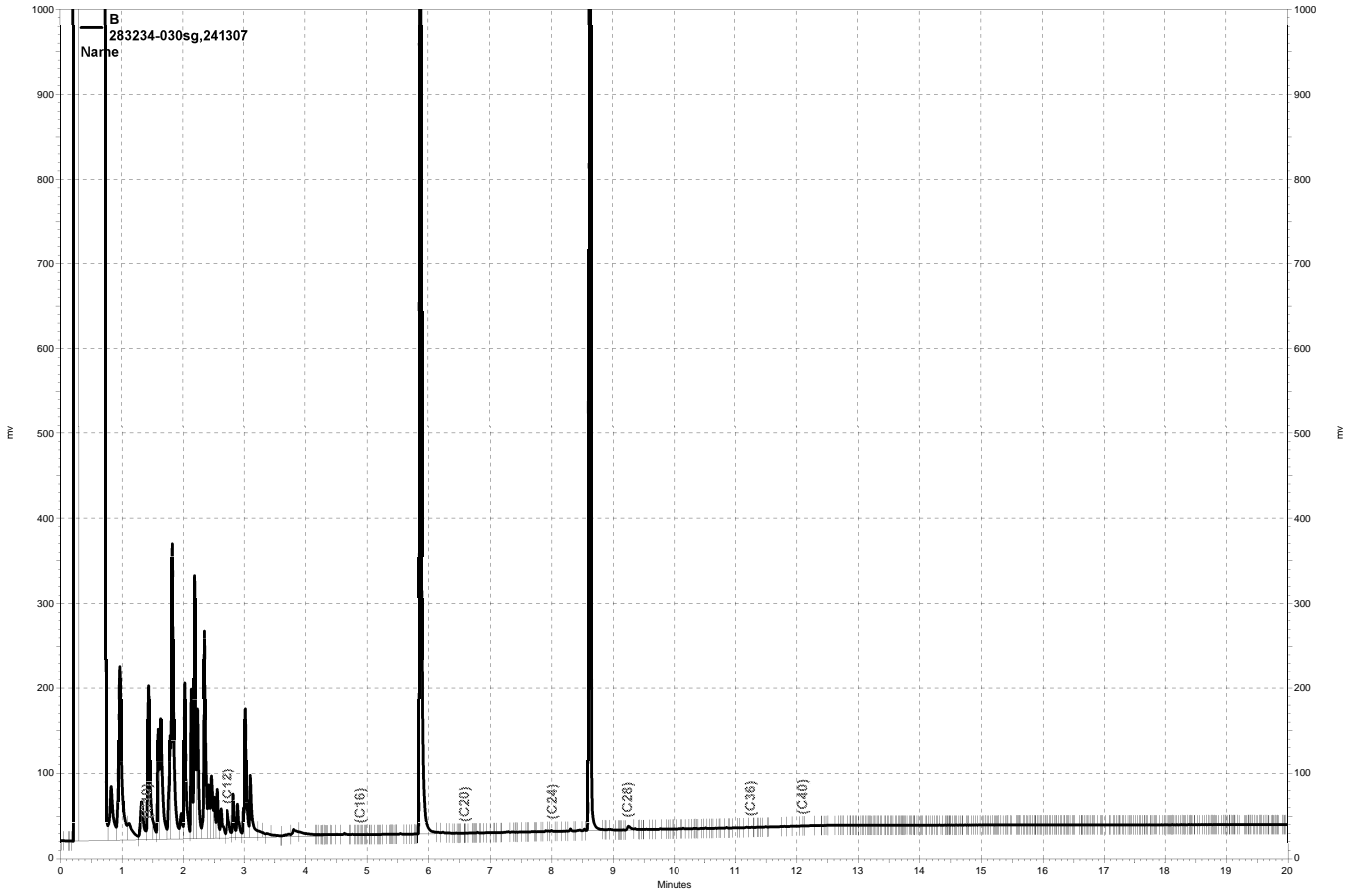
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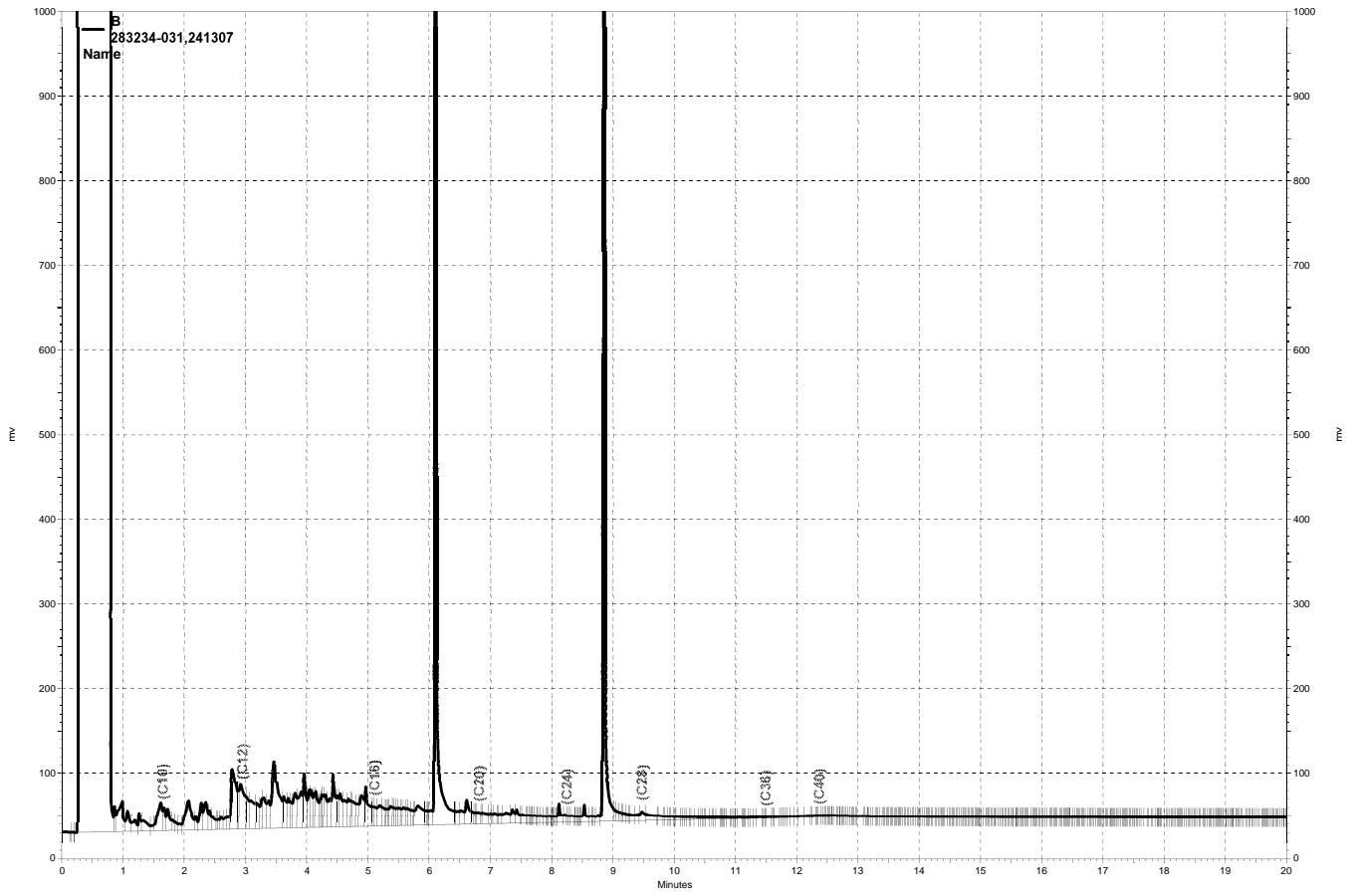
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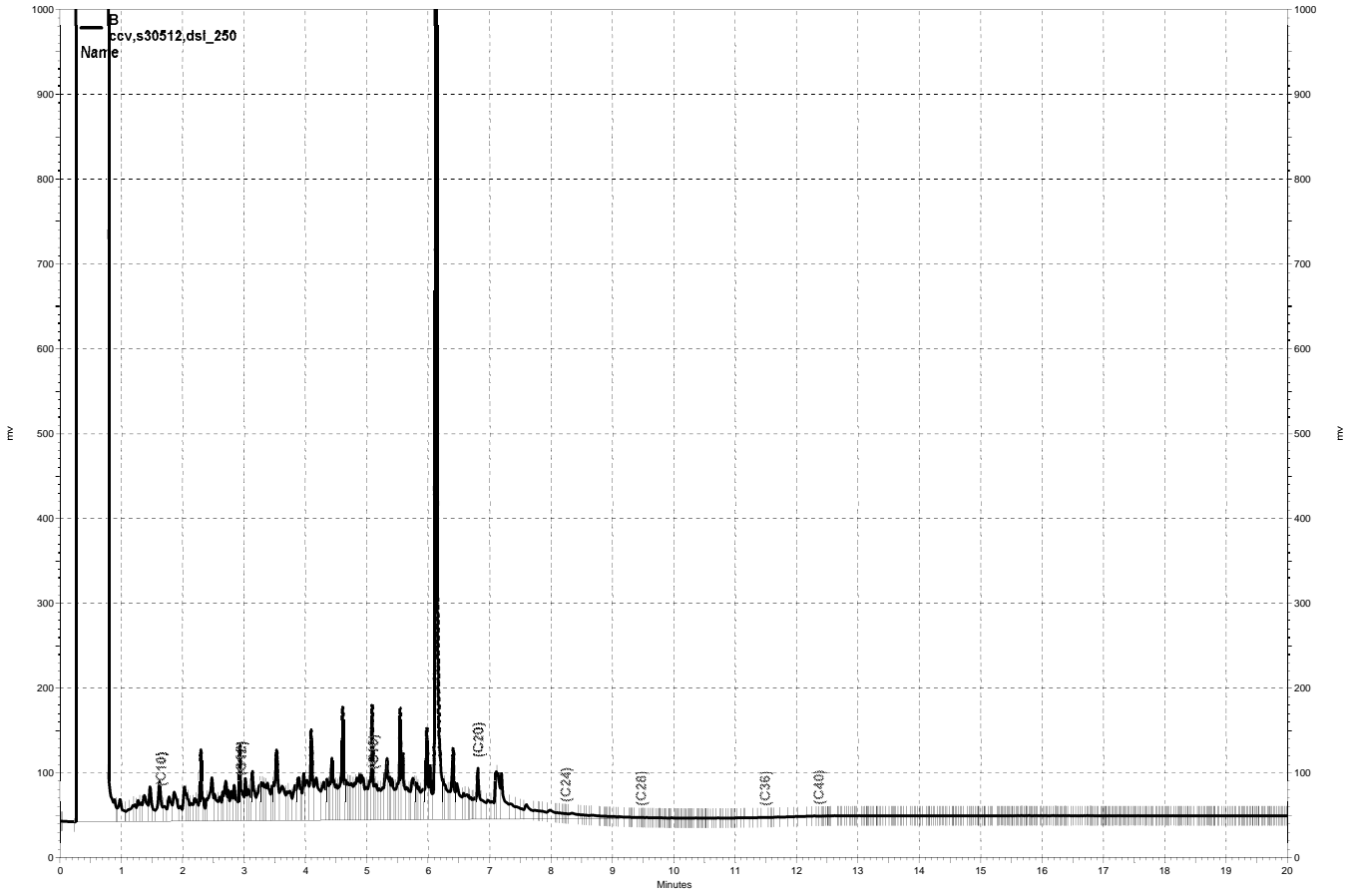
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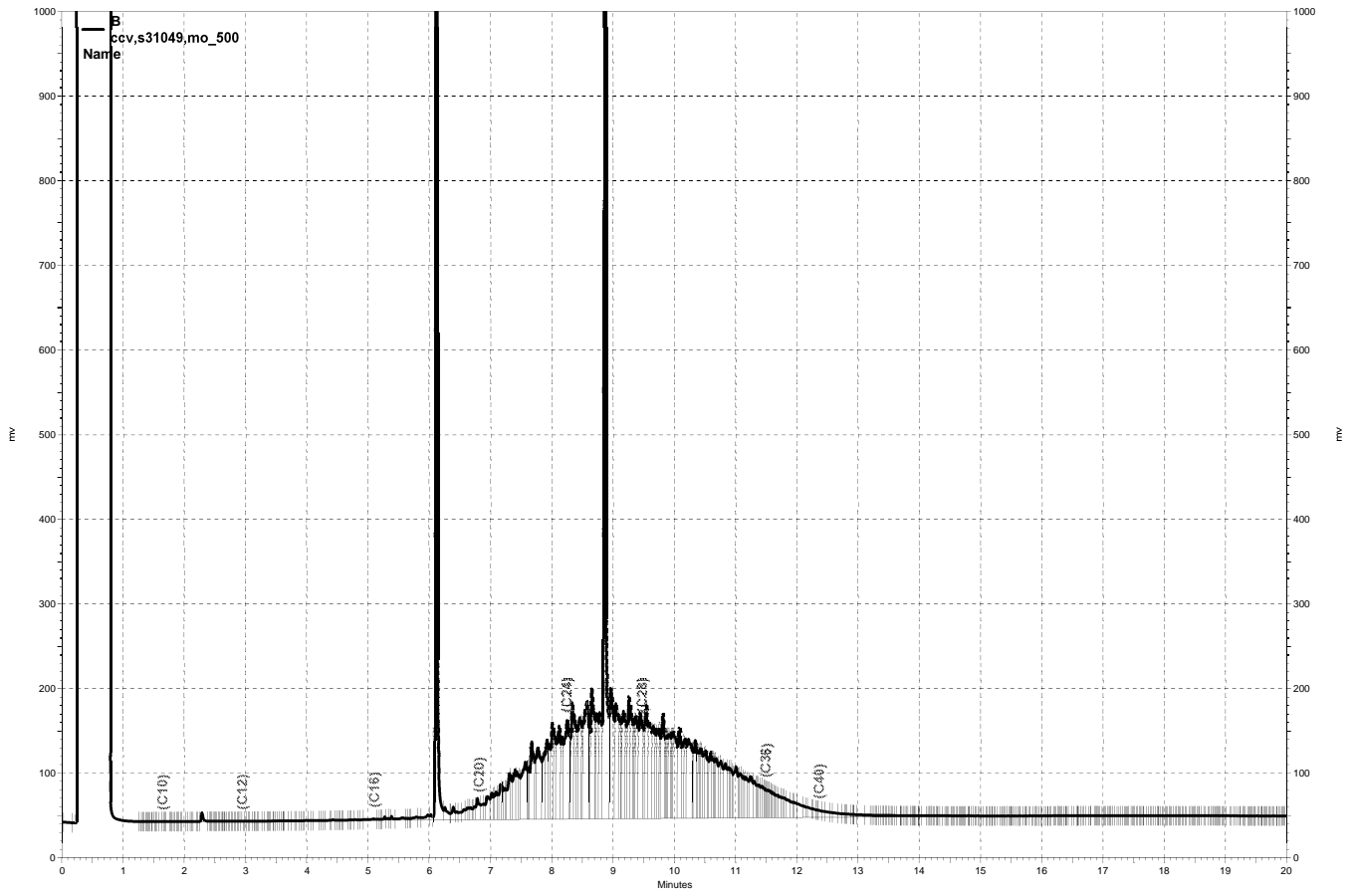
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Total Extractable Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/10/16
Units:	mg/Kg	Received:	11/10/16
Basis:	as received	Prepared:	11/16/16
Batch#:	241463		

Field ID: EB-11 (0-1) Diln Fac: 1.000
 Type: SAMPLE Analyzed: 11/18/16
 Lab ID: 283234-001

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	83	59-140

Field ID: EB-11 (2-3) Diln Fac: 1.000
 Type: SAMPLE Analyzed: 11/18/16
 Lab ID: 283234-002

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	99	59-140

Field ID: EB-10 (0-1) Diln Fac: 3.000
 Type: SAMPLE Analyzed: 11/18/16
 Lab ID: 283234-005

Analyte	Result	RL
Diesel C10-C24	8.4 Y	3.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	130	15
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	81	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/10/16
Units:	mg/Kg	Received:	11/10/16
Basis:	as received	Prepared:	11/16/16
Batch#:	241463		

Field ID: EB-10 (4.5-5) Diln Fac: 1.000
 Type: SAMPLE Analyzed: 11/18/16
 Lab ID: 283234-006

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	102	59-140

Field ID: EB-10 (9.5-10) Diln Fac: 1.000
 Type: SAMPLE Analyzed: 11/18/16
 Lab ID: 283234-007

Analyte	Result	RL
Diesel C10-C24	1.6 Y	0.99
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	109	59-140

Field ID: EB-10 (2-3) Diln Fac: 1.000
 Type: SAMPLE Analyzed: 11/18/16
 Lab ID: 283234-010

Analyte	Result	RL
Diesel C10-C24	2.2 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	100	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/10/16
Units:	mg/Kg	Received:	11/10/16
Basis:	as received	Prepared:	11/16/16
Batch#:	241463		

Field ID: EB-12 (2-3) Diln Fac: 1.000
 Type: SAMPLE Analyzed: 11/18/16
 Lab ID: 283234-011

Analyte	Result	RL
Diesel C10-C24	1.2 Y	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	75	59-140

Field ID: EB-12 (4.5-5) Diln Fac: 1.000
 Type: SAMPLE Analyzed: 11/18/16
 Lab ID: 283234-012

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	106	59-140

Field ID: EB-16 (0-1) Diln Fac: 10.00
 Type: SAMPLE Analyzed: 11/18/16
 Lab ID: 283234-014

Analyte	Result	RL
Diesel C10-C24	51 Y	10
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	540	50
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	DO	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Total Extractable Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	11/10/16
Units:	mg/Kg	Received:	11/10/16
Basis:	as received	Prepared:	11/16/16
Batch#:	241463		

Field ID: EB-16 (12-12.5) Diln Fac: 1.000
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 283234-018

Analyte	Result	RL	Analyzed
Diesel C10-C24	240 Y	1.0	11/18/16
Diesel C10-C24 (SGCU)	190 Y	1.0	12/01/16
Motor Oil C24-C36	ND	5.0	11/18/16
Motor Oil C24-C36 (SGCU)	ND	5.0	12/01/16

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	91	59-140	11/18/16
o-Terphenyl (SGCU)	76	59-140	12/01/16

Field ID: EB-11 (14.5-15) Diln Fac: 1.000
 Type: SAMPLE Analyzed: 11/20/16
 Lab ID: 283234-033

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	NA	
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	NA	

Surrogate	%REC	Limits
o-Terphenyl	89	59-140

Type: BLANK Analyzed: 11/16/16
 Lab ID: QC860886 Cleanup Method: EPA 3630C
 Diln Fac: 1.000

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	104	59-140
o-Terphenyl (SGCU)	98	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860887	Batch#:	241463
Matrix:	Soil	Prepared:	11/16/16
Units:	mg/Kg		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	Analyzed
Diesel C10-C24	49.84	60.86	122	58-137	12/02/16
Diesel C10-C24 (SGCU)	49.84	57.18	115	58-137	11/16/16

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	117	59-140	12/02/16
o-Terphenyl (SGCU)	97	59-140	11/16/16

SGCU= Silica gel cleanup

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	241463
MSS Lab ID:	283240-004	Sampled:	11/09/16
Matrix:	Soil	Received:	11/10/16
Units:	mg/Kg	Prepared:	11/16/16
Basis:	as received	Analyzed:	11/16/16
Diln Fac:	1.000		

Type: MS Lab ID: QC860888

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<0.3034	50.09	44.67	89	46-154
Diesel C10-C24 (SGCU)			NA		

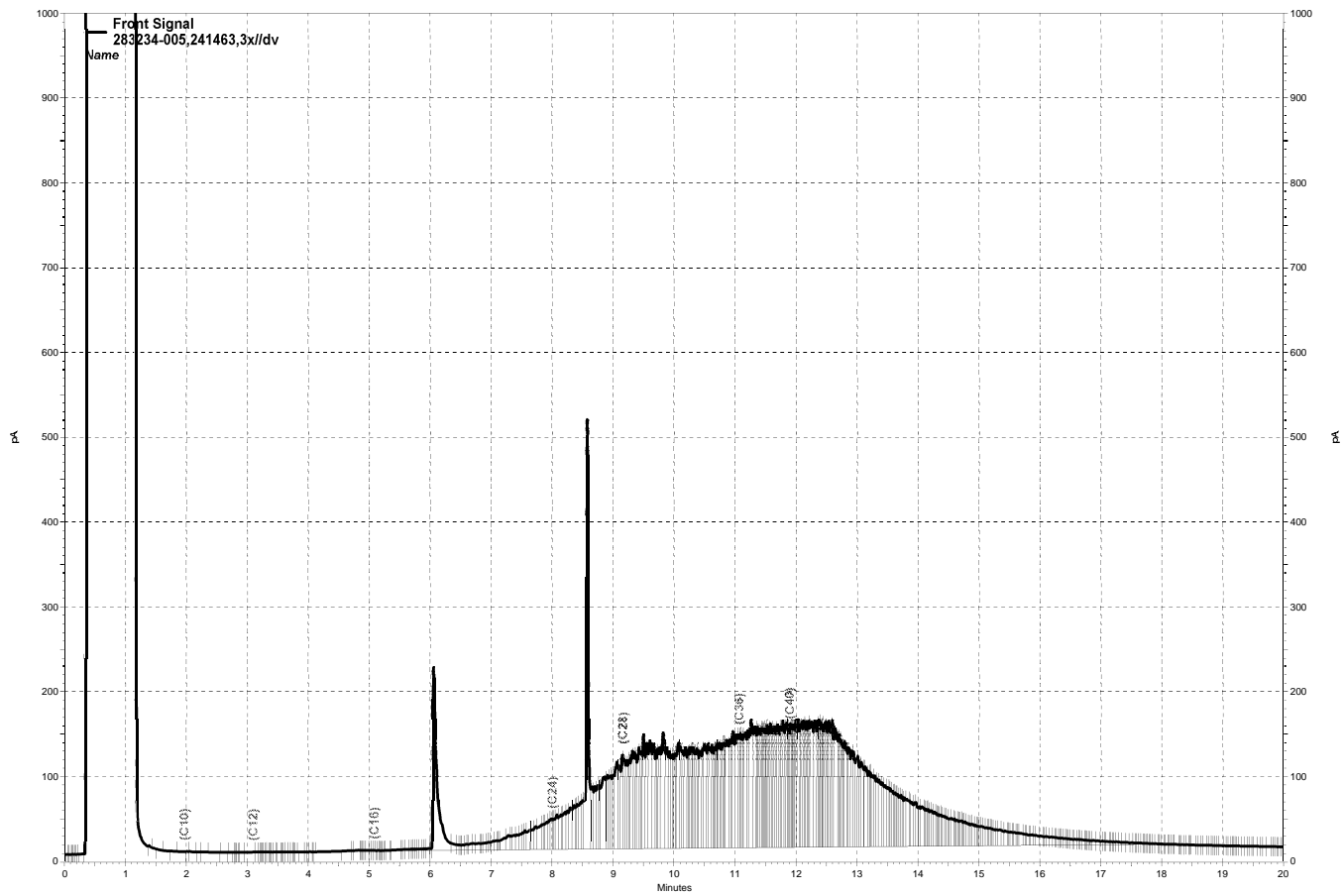
Surrogate	%REC	Limits
o-Terphenyl	71	59-140

Type: MSD Lab ID: QC860889

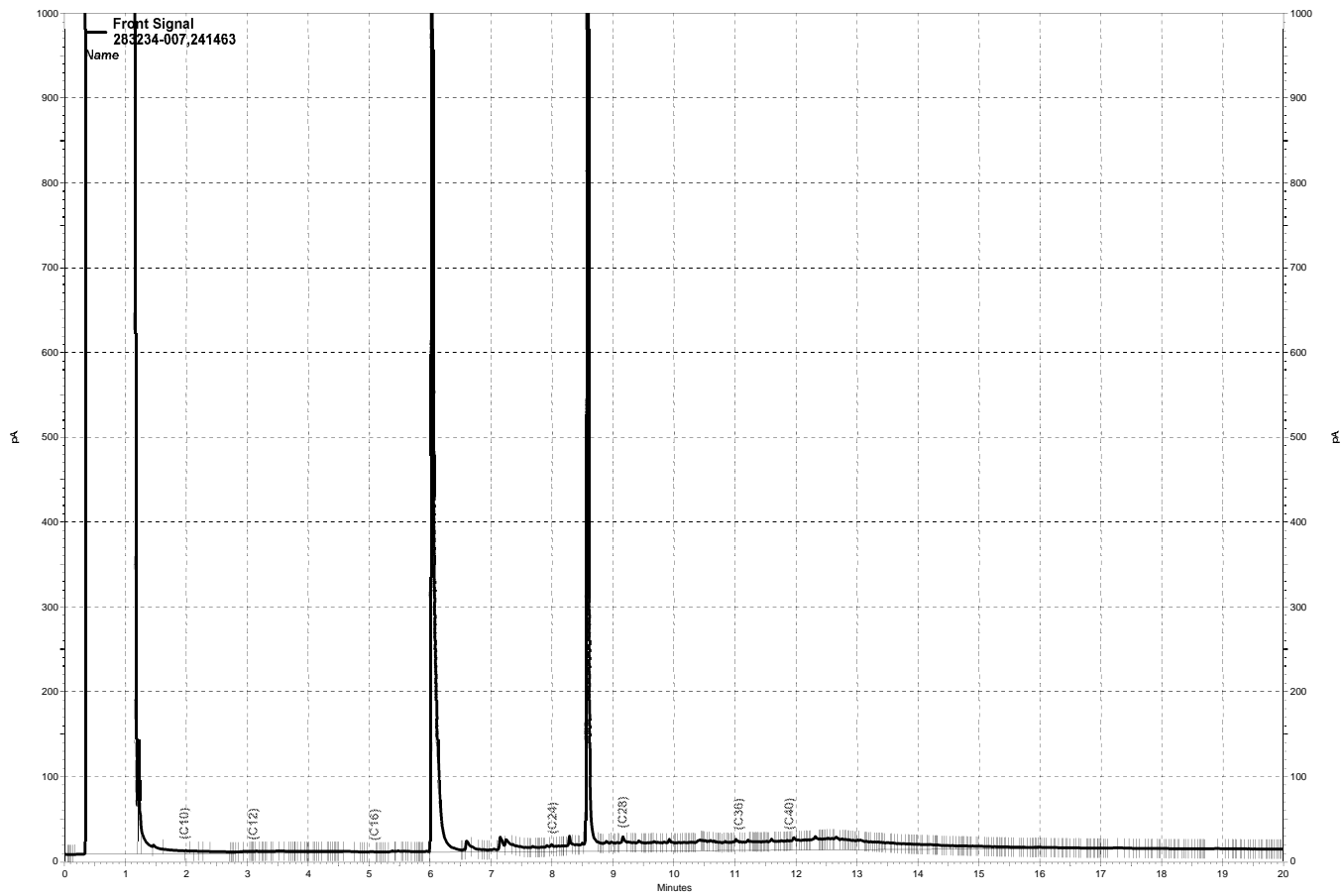
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.28	38.61	77	46-154	15	50
Diesel C10-C24 (SGCU)		NA				

Surrogate	%REC	Limits
o-Terphenyl	72	59-140

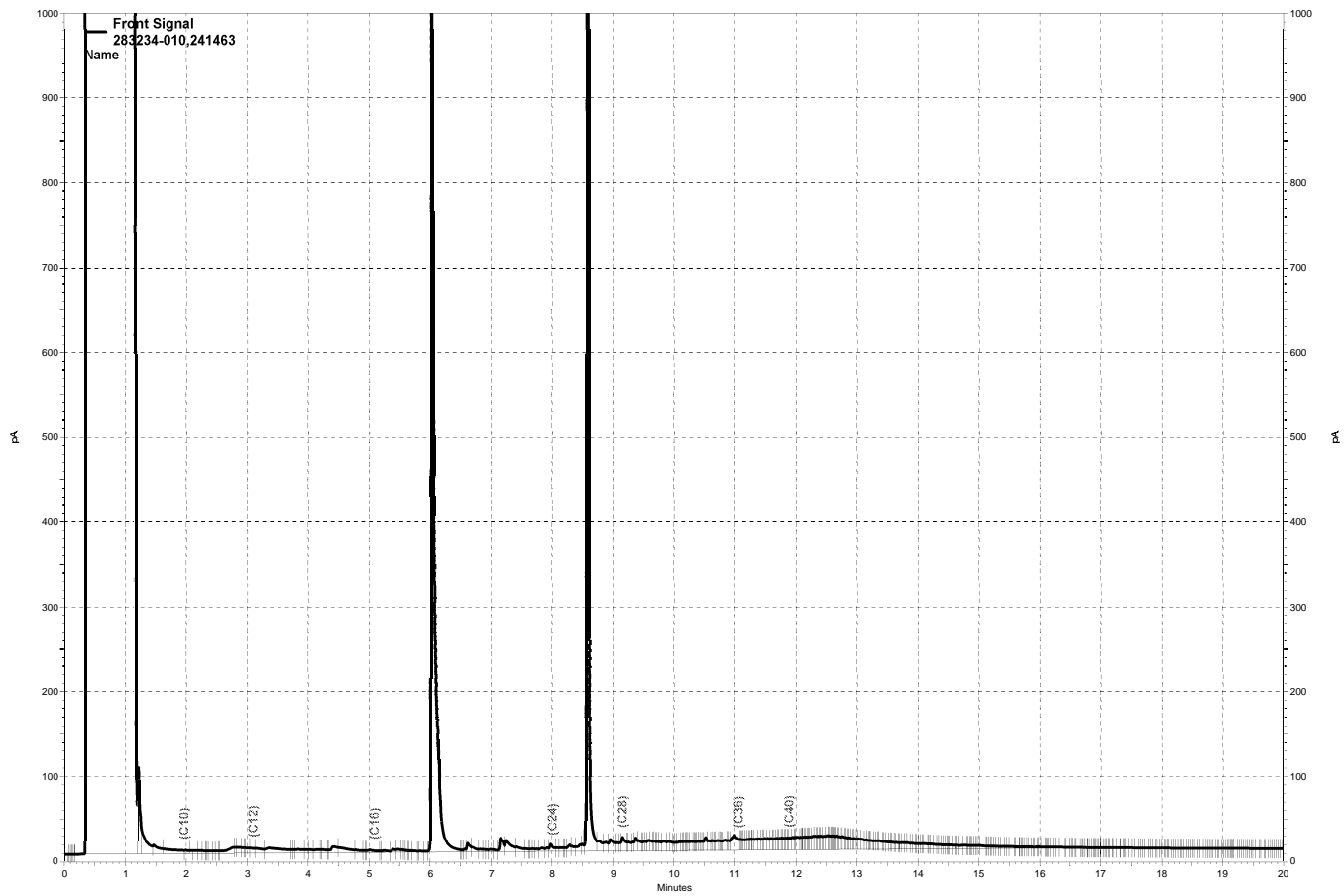
NA= Not Analyzed
 RPD= Relative Percent Difference
 SGCU= Silica gel cleanup



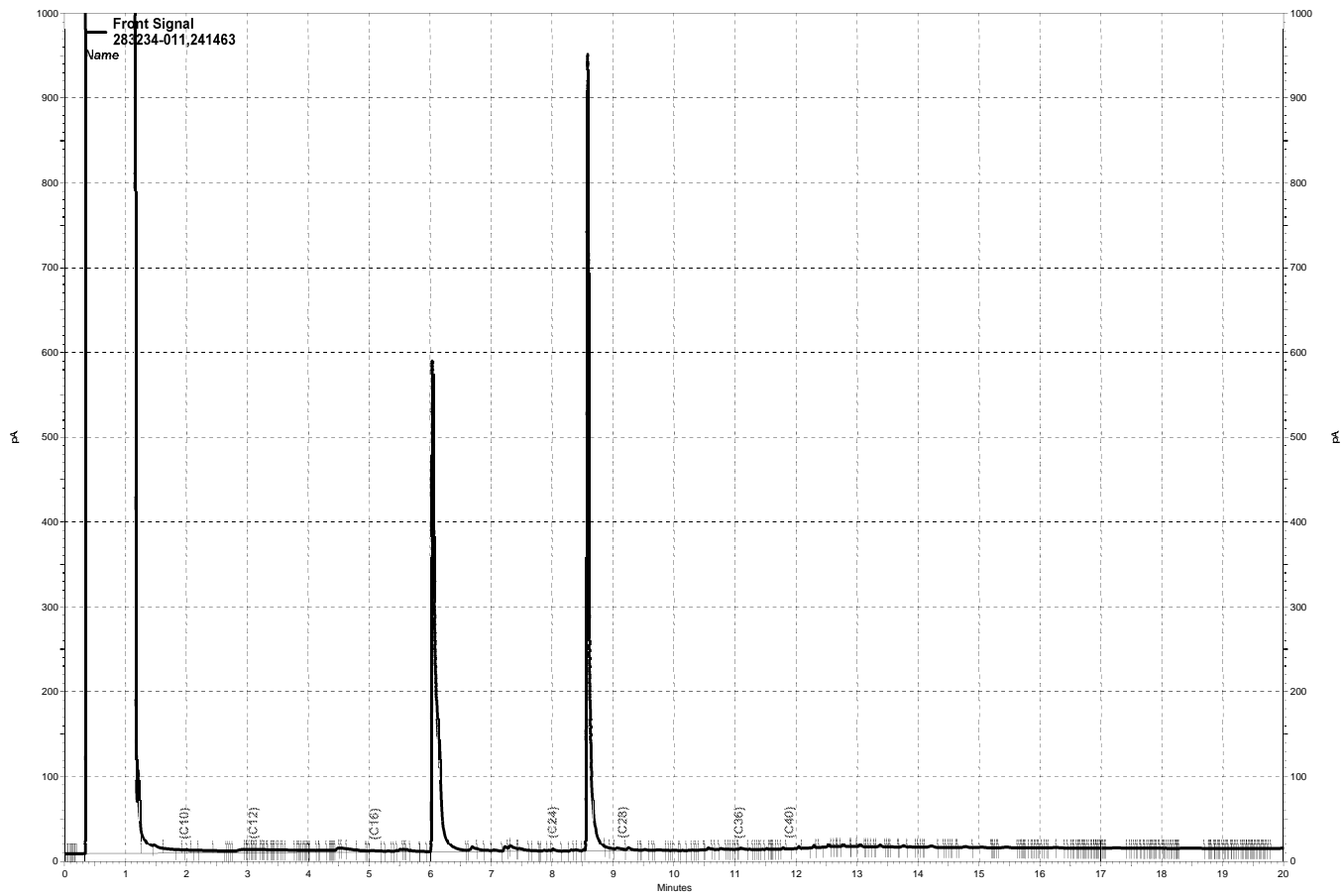
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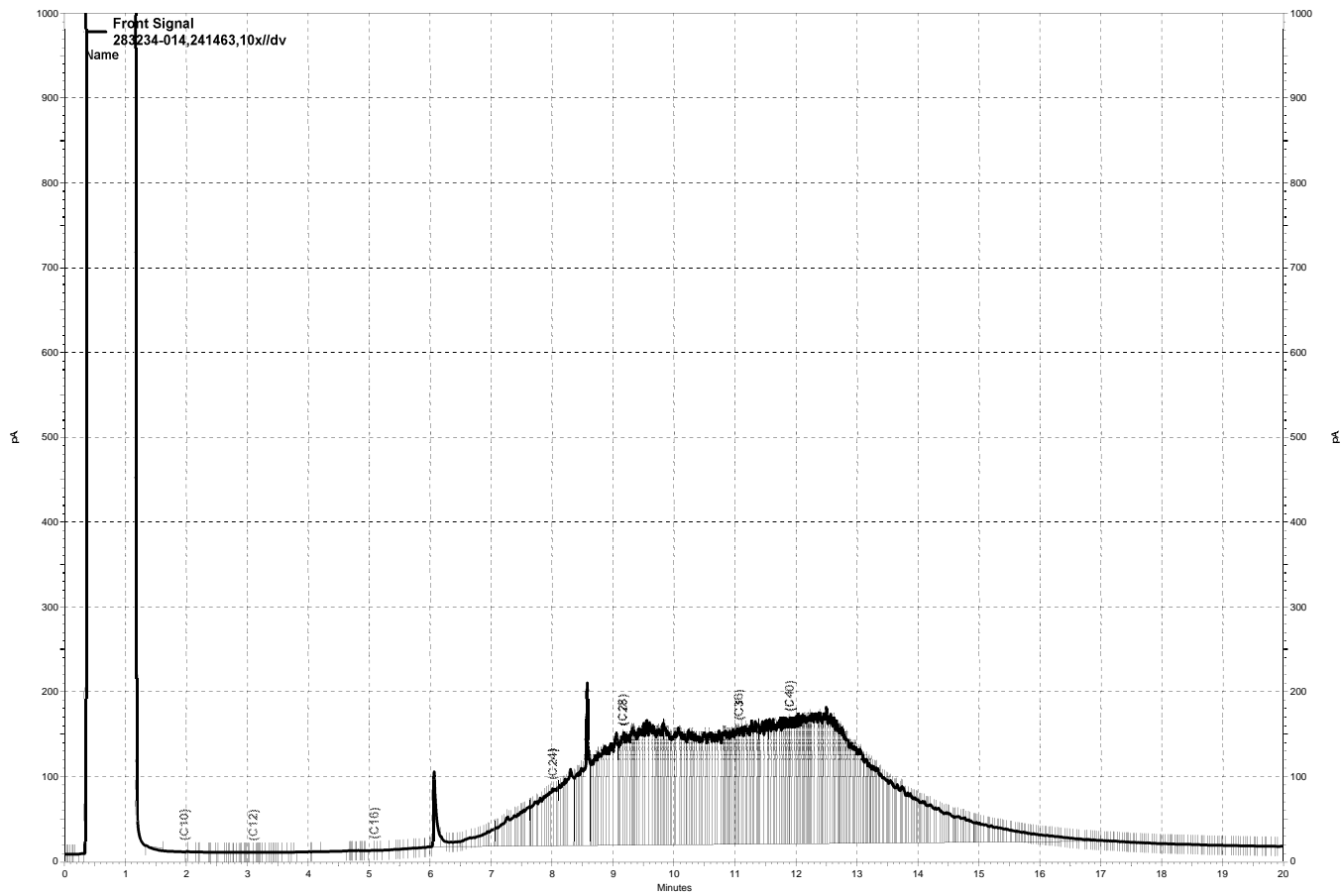
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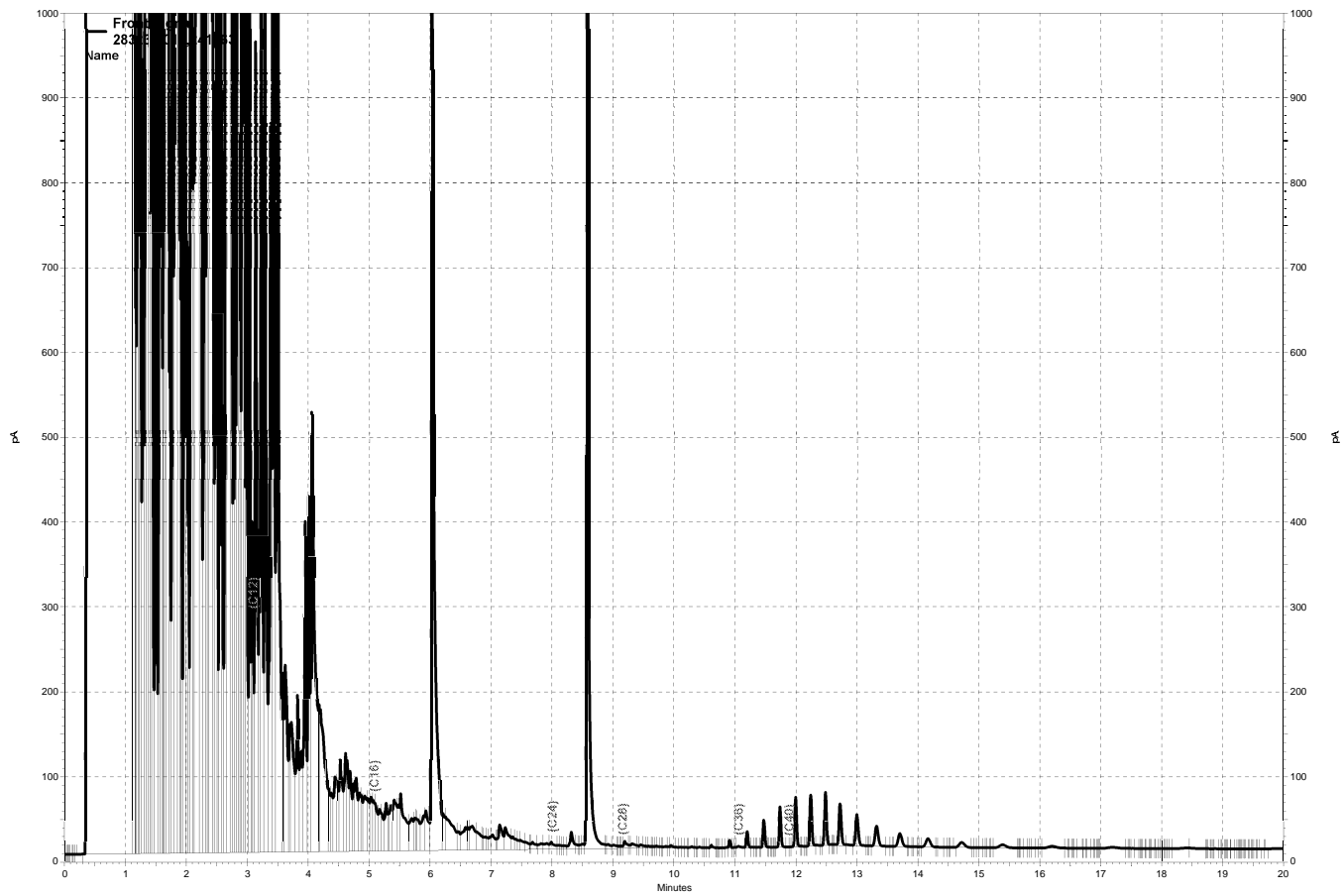
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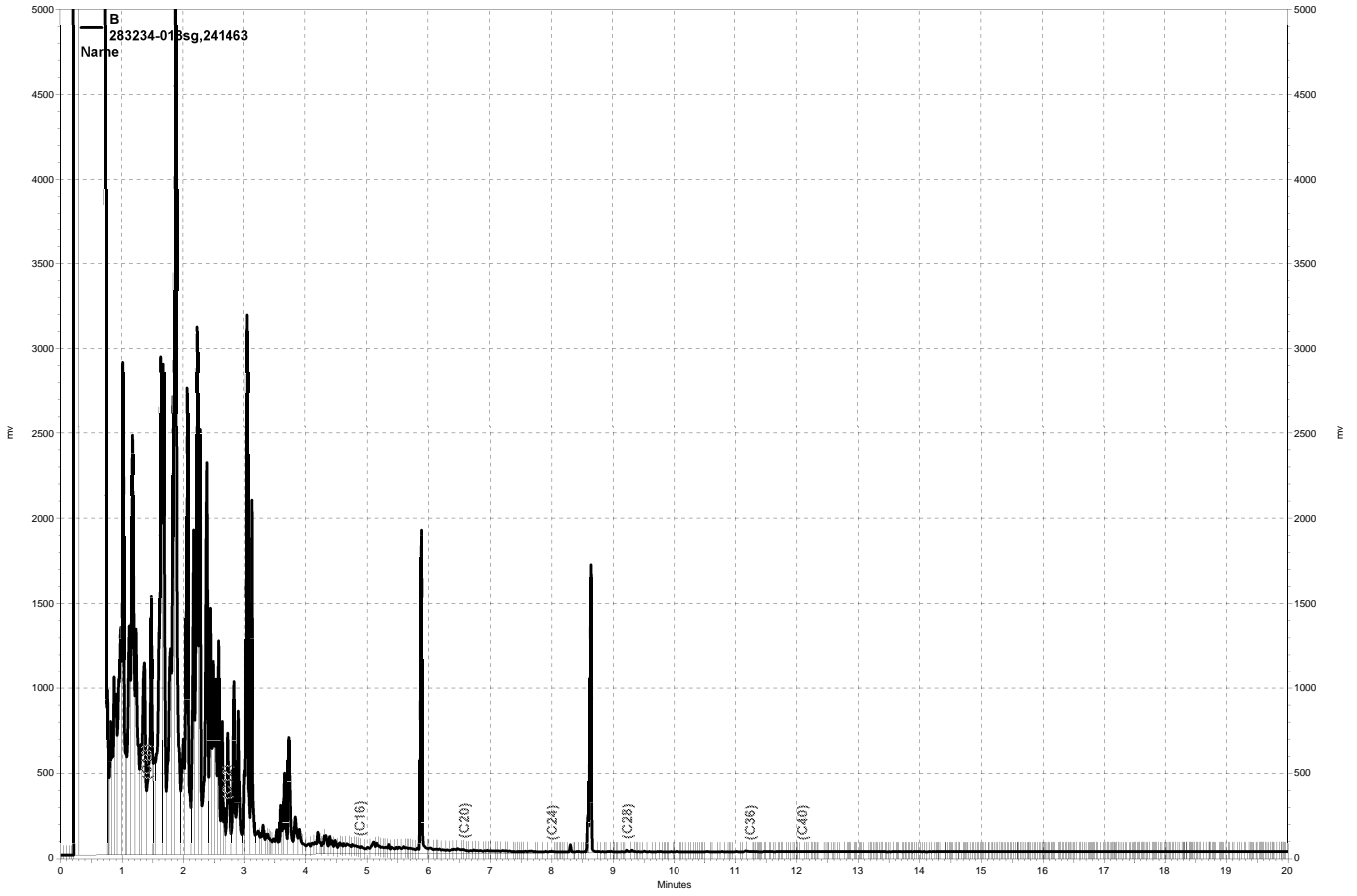
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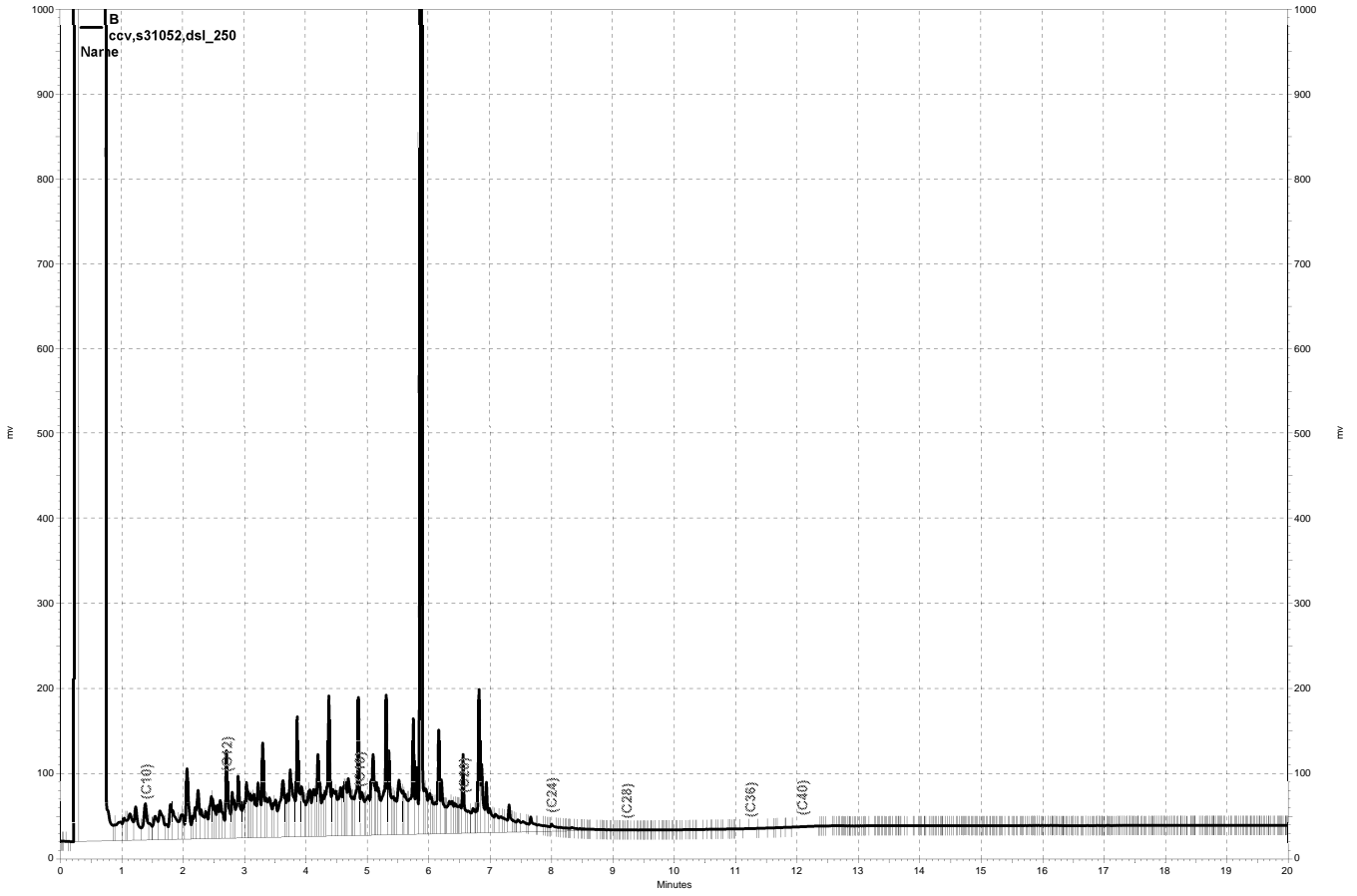
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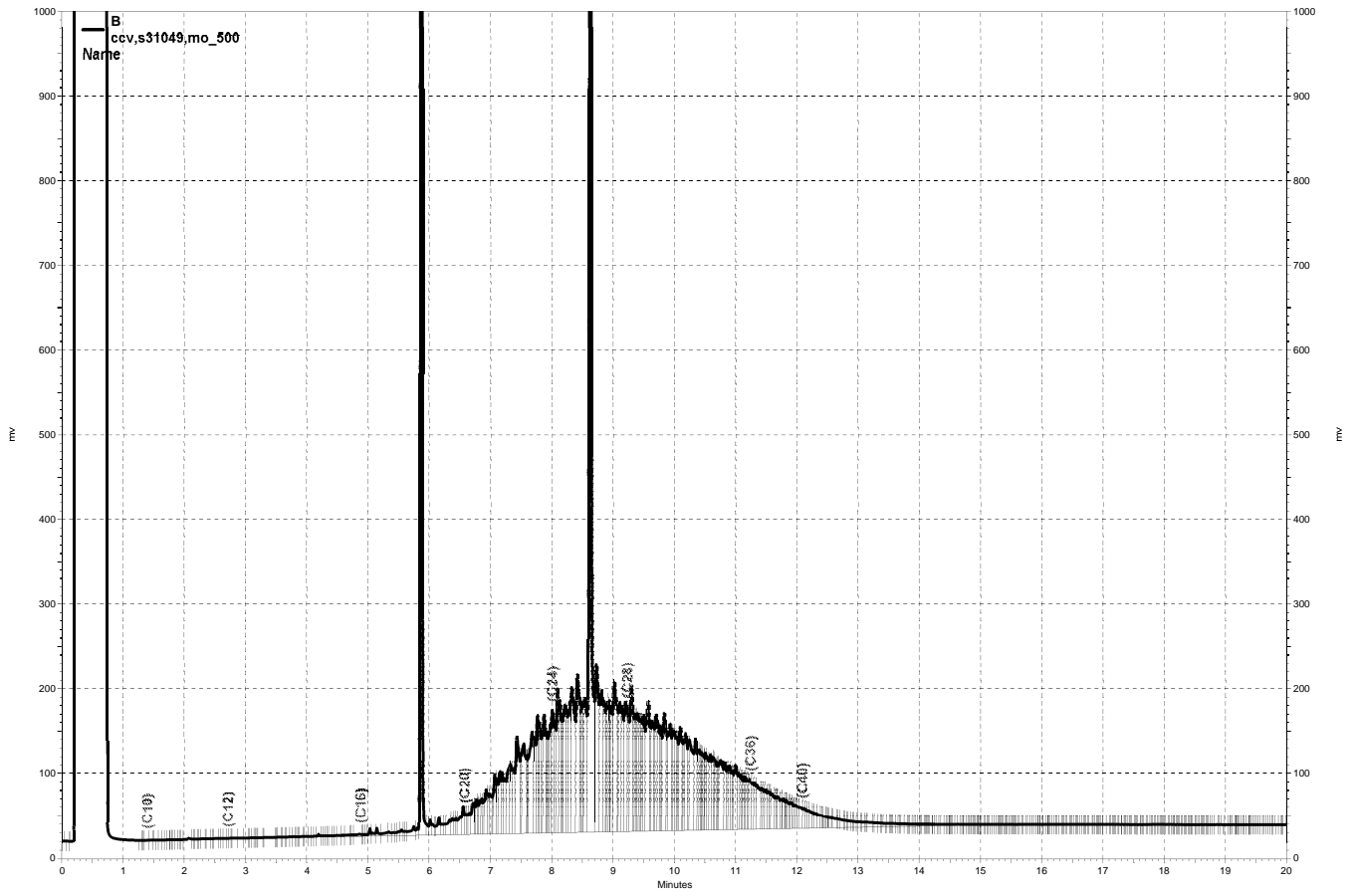
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Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	GW-1	Batch#:	241338
Lab ID:	283234-025	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L	Analyzed:	11/14/16
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	GW-1	Batch#:	241338
Lab ID:	283234-025	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L	Analyzed:	11/14/16
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	1.0	0.5
o-Xylene	0.7	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	1.0	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-128
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	104	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	GW-2	Batch#:	241338
Lab ID:	283234-026	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L	Analyzed:	11/14/16
Diln Fac:	3.333		

Analyte	Result	RL
Freon 12	ND	3.3
Chloromethane	ND	3.3
Vinyl Chloride	ND	1.7
Bromomethane	ND	3.3
Chloroethane	ND	3.3
Trichlorofluoromethane	ND	3.3
Acetone	ND	33
Freon 113	ND	6.7
1,1-Dichloroethene	ND	1.7
Methylene Chloride	ND	33
Carbon Disulfide	ND	1.7
MTBE	ND	1.7
trans-1,2-Dichloroethene	ND	1.7
Vinyl Acetate	ND	33
1,1-Dichloroethane	ND	1.7
2-Butanone	ND	33
cis-1,2-Dichloroethene	ND	1.7
2,2-Dichloropropane	ND	1.7
Chloroform	ND	1.7
Bromochloromethane	ND	1.7
1,1,1-Trichloroethane	ND	1.7
1,1-Dichloropropene	ND	1.7
Carbon Tetrachloride	ND	1.7
1,2-Dichloroethane	ND	1.7
Benzene	ND	1.7
Trichloroethene	ND	1.7
1,2-Dichloropropane	ND	1.7
Bromodichloromethane	ND	1.7
Dibromomethane	ND	1.7
4-Methyl-2-Pentanone	ND	33
cis-1,3-Dichloropropene	ND	1.7
Toluene	ND	1.7
trans-1,3-Dichloropropene	ND	1.7
1,1,2-Trichloroethane	ND	1.7
2-Hexanone	ND	33
1,3-Dichloropropane	ND	1.7
Tetrachloroethene	ND	1.7

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	GW-2	Batch#:	241338
Lab ID:	283234-026	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L	Analyzed:	11/14/16
Diln Fac:	3.333		

Analyte	Result	RL
Dibromochloromethane	ND	1.7
1,2-Dibromoethane	ND	1.7
Chlorobenzene	ND	1.7
1,1,1,2-Tetrachloroethane	ND	1.7
Ethylbenzene	ND	1.7
m,p-Xylenes	ND	1.7
o-Xylene	ND	1.7
Styrene	ND	1.7
Bromoform	ND	3.3
Isopropylbenzene	ND	1.7
1,1,2,2-Tetrachloroethane	ND	1.7
1,2,3-Trichloropropane	ND	1.7
Propylbenzene	ND	1.7
Bromobenzene	ND	1.7
1,3,5-Trimethylbenzene	ND	1.7
2-Chlorotoluene	ND	1.7
4-Chlorotoluene	ND	1.7
tert-Butylbenzene	ND	1.7
1,2,4-Trimethylbenzene	ND	1.7
sec-Butylbenzene	ND	1.7
para-Isopropyl Toluene	ND	1.7
1,3-Dichlorobenzene	ND	1.7
1,4-Dichlorobenzene	ND	1.7
n-Butylbenzene	ND	1.7
1,2-Dichlorobenzene	ND	1.7
1,2-Dibromo-3-Chloropropane	ND	6.7
1,2,4-Trichlorobenzene	ND	1.7
Hexachlorobutadiene	ND	6.7
Naphthalene	ND	6.7
1,2,3-Trichlorobenzene	ND	1.7

Surrogate	%REC	Limits
Dibromofluoromethane	112	80-128
1,2-Dichloroethane-d4	113	75-139
Toluene-d8	102	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-7	Batch#:	241338
Lab ID:	283234-027	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L	Analyzed:	11/14/16
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	11	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-7	Batch#:	241338
Lab ID:	283234-027	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L	Analyzed:	11/14/16
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-128
1,2-Dichloroethane-d4	108	75-139
Toluene-d8	103	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-8	Diln Fac:	1.000
Lab ID:	283234-028	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
Freon 12	ND	1.0	241338	11/14/16
Chloromethane	ND	1.0	241459	11/16/16
Vinyl Chloride	ND	0.5	241338	11/14/16
Bromomethane	ND	1.0	241338	11/14/16
Chloroethane	ND	1.0	241338	11/14/16
Trichlorofluoromethane	ND	1.0	241338	11/14/16
Acetone	ND	10	241338	11/14/16
Freon 113	ND	2.0	241338	11/14/16
1,1-Dichloroethene	ND	0.5	241338	11/14/16
Methylene Chloride	ND	10	241338	11/14/16
Carbon Disulfide	ND	0.5	241338	11/14/16
MTBE	ND	0.5	241338	11/14/16
trans-1,2-Dichloroethene	ND	0.5	241338	11/14/16
Vinyl Acetate	ND	10	241338	11/14/16
1,1-Dichloroethane	ND	0.5	241338	11/14/16
2-Butanone	ND	10	241338	11/14/16
cis-1,2-Dichloroethene	ND	0.5	241338	11/14/16
2,2-Dichloropropane	ND	0.5	241338	11/14/16
Chloroform	ND	0.5	241338	11/14/16
Bromochloromethane	ND	0.5	241338	11/14/16
1,1,1-Trichloroethane	ND	0.5	241338	11/14/16
1,1-Dichloropropene	ND	0.5	241338	11/14/16
Carbon Tetrachloride	ND	0.5	241338	11/14/16
1,2-Dichloroethane	ND	0.5	241338	11/14/16
Benzene	ND	0.5	241338	11/14/16
Trichloroethene	ND	0.5	241338	11/14/16
1,2-Dichloropropane	ND	0.5	241338	11/14/16
Bromodichloromethane	ND	0.5	241338	11/14/16
Dibromomethane	ND	0.5	241338	11/14/16
4-Methyl-2-Pentanone	ND	10	241338	11/14/16
cis-1,3-Dichloropropene	ND	0.5	241338	11/14/16
Toluene	ND	0.5	241338	11/14/16
trans-1,3-Dichloropropene	ND	0.5	241338	11/14/16
1,1,2-Trichloroethane	ND	0.5	241338	11/14/16
2-Hexanone	ND	10	241338	11/14/16
1,3-Dichloropropane	ND	0.5	241338	11/14/16
Tetrachloroethene	ND	0.5	241338	11/14/16
Dibromochloromethane	ND	0.5	241338	11/14/16

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-8	Diln Fac:	1.000
Lab ID:	283234-028	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
1,2-Dibromoethane	ND	0.5	241338	11/14/16
Chlorobenzene	ND	0.5	241338	11/14/16
1,1,1,2-Tetrachloroethane	ND	0.5	241338	11/14/16
Ethylbenzene	ND	0.5	241338	11/14/16
m,p-Xylenes	0.6	0.5	241338	11/14/16
o-Xylene	ND	0.5	241338	11/14/16
Styrene	ND	0.5	241338	11/14/16
Bromoform	ND	1.0	241338	11/14/16
Isopropylbenzene	ND	0.5	241338	11/14/16
1,1,2,2-Tetrachloroethane	ND	0.5	241338	11/14/16
1,2,3-Trichloropropane	ND	0.5	241338	11/14/16
Propylbenzene	ND	0.5	241338	11/14/16
Bromobenzene	ND	0.5	241338	11/14/16
1,3,5-Trimethylbenzene	ND	0.5	241338	11/14/16
2-Chlorotoluene	ND	0.5	241338	11/14/16
4-Chlorotoluene	ND	0.5	241338	11/14/16
tert-Butylbenzene	ND	0.5	241338	11/14/16
1,2,4-Trimethylbenzene	ND	0.5	241338	11/14/16
sec-Butylbenzene	ND	0.5	241338	11/14/16
para-Isopropyl Toluene	ND	0.5	241338	11/14/16
1,3-Dichlorobenzene	ND	0.5	241338	11/14/16
1,4-Dichlorobenzene	ND	0.5	241338	11/14/16
n-Butylbenzene	ND	0.5	241338	11/14/16
1,2-Dichlorobenzene	ND	0.5	241338	11/14/16
1,2-Dibromo-3-Chloropropane	ND	2.0	241338	11/14/16
1,2,4-Trichlorobenzene	ND	0.5	241338	11/14/16
Hexachlorobutadiene	ND	2.0	241338	11/14/16
Naphthalene	ND	2.0	241338	11/14/16
1,2,3-Trichlorobenzene	ND	0.5	241338	11/14/16

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	110	80-128	241338	11/14/16
1,2-Dichloroethane-d4	110	75-139	241338	11/14/16
Toluene-d8	104	80-120	241338	11/14/16
Bromofluorobenzene	105	80-120	241338	11/14/16

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-10	Batch#:	241395
Lab ID:	283234-029	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L	Analyzed:	11/15/16
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	1.4	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	0.5	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-10	Batch#:	241395
Lab ID:	283234-029	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L	Analyzed:	11/15/16
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	60	0.5
m,p-Xylenes	5.4	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	34	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	98	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	6.9	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	28	0.5
sec-Butylbenzene	12	0.5
para-Isopropyl Toluene	1.2	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	20	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	40	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-128
1,2-Dichloroethane-d4	95	75-139
Toluene-d8	106	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-9	Batch#:	241338
Lab ID:	283234-030	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L	Analyzed:	11/14/16
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	15	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-9	Batch#:	241338
Lab ID:	283234-030	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L	Analyzed:	11/14/16
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	2.3	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	6.6	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	21	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	1.2	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	4.6	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-128
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	104	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	GW-3	Batch#:	241338
Lab ID:	283234-031	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L	Analyzed:	11/14/16
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	GW-3	Batch#:	241338
Lab ID:	283234-031	Sampled:	11/10/16
Matrix:	Water	Received:	11/10/16
Units:	ug/L	Analyzed:	11/14/16
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	0.6	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	1.5	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-128
1,2-Dichloroethane-d4	113	75-139
Toluene-d8	103	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	241338
MSS Lab ID:	283303-010	Sampled:	11/10/16
Matrix:	Water	Received:	11/11/16
Units:	ug/L	Analyzed:	11/15/16
Diln Fac:	1.000		

Type: MS Lab ID: QC860392

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1268	25.00	28.04	112	73-129
Benzene	<0.1000	25.00	29.77	119	80-120
Trichloroethene	<0.1000	25.00	27.30	109	73-123
Toluene	<0.1000	25.00	28.33	113	80-120
Chlorobenzene	<0.1000	25.00	25.71	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-128
1,2-Dichloroethane-d4	110	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	99	80-120

Type: MSD Lab ID: QC860393

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	27.13	109	73-129	3	25
Benzene	25.00	28.79	115	80-120	3	20
Trichloroethene	25.00	26.08	104	73-123	5	20
Toluene	25.00	27.64	111	80-120	2	21
Chlorobenzene	25.00	25.11	100	80-120	2	24

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-128
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	102	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860394	Batch#:	241338
Matrix:	Water	Analyzed:	11/14/16
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860394	Batch#:	241338
Matrix:	Water	Analyzed:	11/14/16
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-128
1,2-Dichloroethane-d4	107	75-139
Toluene-d8	103	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860438	Batch#:	241338
Matrix:	Water	Analyzed:	11/14/16
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	12.73	102	66-135
Benzene	12.50	14.27	114	80-123
Trichloroethene	12.50	12.40	99	80-123
Toluene	12.50	13.53	108	80-121
Chlorobenzene	12.50	12.41	99	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-128
1,2-Dichloroethane-d4	104	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-120

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	241395
Units:	ug/L	Analyzed:	11/15/16
Diln Fac:	1.000		

Type: BS Lab ID: QC860603

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	13.20	106	66-135
Benzene	12.50	14.36	115	80-123
Trichloroethene	12.50	12.45	100	80-123
Toluene	12.50	13.36	107	80-121
Chlorobenzene	12.50	12.46	100	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-128
1,2-Dichloroethane-d4	88	75-139
Toluene-d8	102	80-120
Bromofluorobenzene	100	80-120

Type: BSD Lab ID: QC860604

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.26	98	66-135	7	24
Benzene	12.50	13.24	106	80-123	8	20
Trichloroethene	12.50	11.67	93	80-123	6	20
Toluene	12.50	12.87	103	80-121	4	20
Chlorobenzene	12.50	12.04	96	80-123	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-128
1,2-Dichloroethane-d4	86	75-139
Toluene-d8	103	80-120
Bromofluorobenzene	99	80-120

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860605	Batch#:	241395
Matrix:	Water	Analyzed:	11/15/16
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860605	Batch#:	241395
Matrix:	Water	Analyzed:	11/15/16
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-128
1,2-Dichloroethane-d4	88	75-139
Toluene-d8	105	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	241459
Units:	ug/L	Analyzed:	11/16/16
Diln Fac:	1.000		

Type: BS Lab ID: QC860870

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	15.63 b	125	66-135
Benzene	12.50	14.08	113	80-123
Trichloroethene	12.50	13.74	110	80-123
Toluene	12.50	12.57	101	80-121
Chlorobenzene	12.50	13.34	107	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-128
1,2-Dichloroethane-d4	77	75-139
Toluene-d8	87	80-120
Bromofluorobenzene	91	80-120

Type: BSD Lab ID: QC860871

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	15.37 b	123	66-135	2	24
Benzene	12.50	13.60	109	80-123	3	20
Trichloroethene	12.50	13.17	105	80-123	4	20
Toluene	12.50	12.06	96	80-121	4	20
Chlorobenzene	12.50	12.51	100	80-123	6	20

Surrogate	%REC	Limits
Dibromofluoromethane	115	80-128
1,2-Dichloroethane-d4	76	75-139
Toluene-d8	83	80-120
Bromofluorobenzene	92	80-120

b= See narrative

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860872	Batch#:	241459
Matrix:	Water	Analyzed:	11/16/16
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5

*= Value outside of QC limits; see narrative

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860872	Batch#:	241459
Matrix:	Water	Analyzed:	11/16/16
Units:	ug/L		

Analyte	Result	RL
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-128
1,2-Dichloroethane-d4	73 *	75-139
Toluene-d8	85	80-120
Bromofluorobenzene	94	80-120

*= Value outside of QC limits; see narrative
 ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-10 (4.5-5)	Diln Fac:	1.114
Lab ID:	283234-006	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/13/16

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.6
Acetone	ND	22
Freon 113	ND	5.6
1,1-Dichloroethene	ND	5.6
Methylene Chloride	ND	22
Carbon Disulfide	ND	5.6
MTBE	ND	5.6
trans-1,2-Dichloroethene	ND	5.6
Vinyl Acetate	ND	56
1,1-Dichloroethane	ND	5.6
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.6
2,2-Dichloropropane	ND	5.6
Chloroform	ND	5.6
Bromochloromethane	ND	5.6
1,1,1-Trichloroethane	ND	5.6
1,1-Dichloropropene	ND	5.6
Carbon Tetrachloride	ND	5.6
1,2-Dichloroethane	ND	5.6
Benzene	ND	5.6
Trichloroethene	ND	5.6
1,2-Dichloropropane	ND	5.6
Bromodichloromethane	ND	5.6
Dibromomethane	ND	5.6
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.6
Toluene	ND	5.6
trans-1,3-Dichloropropene	ND	5.6
1,1,2-Trichloroethane	ND	5.6
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.6
Tetrachloroethene	ND	5.6

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-10 (4.5-5)	Diln Fac:	1.114
Lab ID:	283234-006	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/13/16

Analyte	Result	RL
Dibromochloromethane	ND	5.6
1,2-Dibromoethane	ND	5.6
Chlorobenzene	ND	5.6
1,1,1,2-Tetrachloroethane	ND	5.6
Ethylbenzene	ND	5.6
m,p-Xylenes	ND	5.6
o-Xylene	ND	5.6
Styrene	ND	5.6
Bromoform	ND	5.6
Isopropylbenzene	ND	5.6
1,1,2,2-Tetrachloroethane	ND	5.6
1,2,3-Trichloropropane	ND	5.6
Propylbenzene	ND	5.6
Bromobenzene	ND	5.6
1,3,5-Trimethylbenzene	ND	5.6
2-Chlorotoluene	ND	5.6
4-Chlorotoluene	ND	5.6
tert-Butylbenzene	ND	5.6
1,2,4-Trimethylbenzene	ND	5.6
sec-Butylbenzene	ND	5.6
para-Isopropyl Toluene	ND	5.6
1,3-Dichlorobenzene	ND	5.6
1,4-Dichlorobenzene	ND	5.6
n-Butylbenzene	ND	5.6
1,2-Dichlorobenzene	ND	5.6
1,2-Dibromo-3-Chloropropane	ND	5.6
1,2,4-Trichlorobenzene	ND	5.6
Hexachlorobutadiene	ND	5.6
Naphthalene	ND	5.6
1,2,3-Trichlorobenzene	ND	5.6

Surrogate	%REC	Limits
Dibromofluoromethane	119	78-134
1,2-Dichloroethane-d4	113	80-138
Toluene-d8	94	80-120
Bromofluorobenzene	120	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-10 (9.5-10)	Diln Fac:	1.099
Lab ID:	283234-007	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/13/16

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.5
Acetone	ND	22
Freon 113	ND	5.5
1,1-Dichloroethene	ND	5.5
Methylene Chloride	ND	22
Carbon Disulfide	ND	5.5
MTBE	ND	5.5
trans-1,2-Dichloroethene	ND	5.5
Vinyl Acetate	ND	55
1,1-Dichloroethane	ND	5.5
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.5
2,2-Dichloropropane	ND	5.5
Chloroform	ND	5.5
Bromochloromethane	ND	5.5
1,1,1-Trichloroethane	ND	5.5
1,1-Dichloropropene	ND	5.5
Carbon Tetrachloride	ND	5.5
1,2-Dichloroethane	ND	5.5
Benzene	ND	5.5
Trichloroethene	ND	5.5
1,2-Dichloropropane	ND	5.5
Bromodichloromethane	ND	5.5
Dibromomethane	ND	5.5
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.5
Toluene	ND	5.5
trans-1,3-Dichloropropene	ND	5.5
1,1,2-Trichloroethane	ND	5.5
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.5
Tetrachloroethene	ND	5.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-10 (9.5-10)	Diln Fac:	1.099
Lab ID:	283234-007	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/13/16

Analyte	Result	RL
Dibromochloromethane	ND	5.5
1,2-Dibromoethane	ND	5.5
Chlorobenzene	ND	5.5
1,1,1,2-Tetrachloroethane	ND	5.5
Ethylbenzene	ND	5.5
m,p-Xylenes	ND	5.5
o-Xylene	ND	5.5
Styrene	ND	5.5
Bromoform	ND	5.5
Isopropylbenzene	ND	5.5
1,1,2,2-Tetrachloroethane	ND	5.5
1,2,3-Trichloropropane	ND	5.5
Propylbenzene	ND	5.5
Bromobenzene	ND	5.5
1,3,5-Trimethylbenzene	ND	5.5
2-Chlorotoluene	ND	5.5
4-Chlorotoluene	ND	5.5
tert-Butylbenzene	ND	5.5
1,2,4-Trimethylbenzene	ND	5.5
sec-Butylbenzene	ND	5.5
para-Isopropyl Toluene	ND	5.5
1,3-Dichlorobenzene	ND	5.5
1,4-Dichlorobenzene	ND	5.5
n-Butylbenzene	ND	5.5
1,2-Dichlorobenzene	ND	5.5
1,2-Dibromo-3-Chloropropane	ND	5.5
1,2,4-Trichlorobenzene	ND	5.5
Hexachlorobutadiene	ND	5.5
Naphthalene	ND	5.5
1,2,3-Trichlorobenzene	ND	5.5

Surrogate	%REC	Limits
Dibromofluoromethane	124	78-134
1,2-Dichloroethane-d4	118	80-138
Toluene-d8	95	80-120
Bromofluorobenzene	121	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-10 (2-3)	Diln Fac:	0.8850
Lab ID:	283234-010	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/13/16

Analyte	Result	RL
Freon 12	ND	8.8
Chloromethane	ND	8.8
Vinyl Chloride	ND	8.8
Bromomethane	ND	8.8
Chloroethane	ND	8.8
Trichlorofluoromethane	ND	4.4
Acetone	ND	18
Freon 113	ND	4.4
1,1-Dichloroethene	ND	4.4
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.4
MTBE	ND	4.4
trans-1,2-Dichloroethene	ND	4.4
Vinyl Acetate	ND	44
1,1-Dichloroethane	ND	4.4
2-Butanone	ND	8.8
cis-1,2-Dichloroethene	ND	4.4
2,2-Dichloropropane	ND	4.4
Chloroform	ND	4.4
Bromochloromethane	ND	4.4
1,1,1-Trichloroethane	ND	4.4
1,1-Dichloropropene	ND	4.4
Carbon Tetrachloride	ND	4.4
1,2-Dichloroethane	ND	4.4
Benzene	ND	4.4
Trichloroethene	ND	4.4
1,2-Dichloropropane	ND	4.4
Bromodichloromethane	ND	4.4
Dibromomethane	ND	4.4
4-Methyl-2-Pentanone	ND	8.8
cis-1,3-Dichloropropene	ND	4.4
Toluene	ND	4.4
trans-1,3-Dichloropropene	ND	4.4
1,1,2-Trichloroethane	ND	4.4
2-Hexanone	ND	8.8
1,3-Dichloropropane	ND	4.4
Tetrachloroethene	ND	4.4

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-10 (2-3)	Diln Fac:	0.8850
Lab ID:	283234-010	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/13/16

Analyte	Result	RL
Dibromochloromethane	ND	4.4
1,2-Dibromoethane	ND	4.4
Chlorobenzene	ND	4.4
1,1,1,2-Tetrachloroethane	ND	4.4
Ethylbenzene	ND	4.4
m,p-Xylenes	ND	4.4
o-Xylene	ND	4.4
Styrene	ND	4.4
Bromoform	ND	4.4
Isopropylbenzene	ND	4.4
1,1,2,2-Tetrachloroethane	ND	4.4
1,2,3-Trichloropropane	ND	4.4
Propylbenzene	ND	4.4
Bromobenzene	ND	4.4
1,3,5-Trimethylbenzene	ND	4.4
2-Chlorotoluene	ND	4.4
4-Chlorotoluene	ND	4.4
tert-Butylbenzene	ND	4.4
1,2,4-Trimethylbenzene	ND	4.4
sec-Butylbenzene	ND	4.4
para-Isopropyl Toluene	ND	4.4
1,3-Dichlorobenzene	ND	4.4
1,4-Dichlorobenzene	ND	4.4
n-Butylbenzene	ND	4.4
1,2-Dichlorobenzene	ND	4.4
1,2-Dibromo-3-Chloropropane	ND	4.4
1,2,4-Trichlorobenzene	ND	4.4
Hexachlorobutadiene	ND	4.4
Naphthalene	ND	4.4
1,2,3-Trichlorobenzene	ND	4.4

Surrogate	%REC	Limits
Dibromofluoromethane	125	78-134
1,2-Dichloroethane-d4	119	80-138
Toluene-d8	96	80-120
Bromofluorobenzene	123	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-12 (2-3)	Diln Fac:	0.9843
Lab ID:	283234-011	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/13/16

Analyte	Result	RL
Freon 12	ND	9.8
Chloromethane	ND	9.8
Vinyl Chloride	ND	9.8
Bromomethane	ND	9.8
Chloroethane	ND	9.8
Trichlorofluoromethane	ND	4.9
Acetone	73	20
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	20
Carbon Disulfide	ND	4.9
MTBE	ND	4.9
trans-1,2-Dichloroethene	ND	4.9
Vinyl Acetate	ND	49
1,1-Dichloroethane	ND	4.9
2-Butanone	13	9.8
cis-1,2-Dichloroethene	ND	4.9
2,2-Dichloropropane	ND	4.9
Chloroform	ND	4.9
Bromochloromethane	ND	4.9
1,1,1-Trichloroethane	ND	4.9
1,1-Dichloropropene	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
Dibromomethane	ND	4.9
4-Methyl-2-Pentanone	ND	9.8
cis-1,3-Dichloropropene	ND	4.9
Toluene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	4.9
2-Hexanone	ND	9.8
1,3-Dichloropropane	ND	4.9
Tetrachloroethene	ND	4.9
Dibromochloromethane	ND	4.9
1,2-Dibromoethane	ND	4.9
Chlorobenzene	ND	4.9
1,1,1,2-Tetrachloroethane	ND	4.9
Ethylbenzene	ND	4.9
m,p-Xylenes	ND	4.9
o-Xylene	ND	4.9
Styrene	ND	4.9
Bromoform	ND	4.9
Isopropylbenzene	ND	4.9
1,1,2,2-Tetrachloroethane	ND	4.9
1,2,3-Trichloropropane	ND	4.9
Propylbenzene	ND	4.9
Bromobenzene	ND	4.9
1,3,5-Trimethylbenzene	ND	4.9
2-Chlorotoluene	ND	4.9

*= Value outside of QC limits; see narrative

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-12 (2-3)	Diln Fac:	0.9843
Lab ID:	283234-011	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/13/16

Analyte	Result	RL
4-Chlorotoluene	ND	4.9
tert-Butylbenzene	ND	4.9
1,2,4-Trimethylbenzene	ND	4.9
sec-Butylbenzene	ND	4.9
para-Isopropyl Toluene	ND	4.9
1,3-Dichlorobenzene	ND	4.9
1,4-Dichlorobenzene	ND	4.9
n-Butylbenzene	ND	4.9
1,2-Dichlorobenzene	ND	4.9
1,2-Dibromo-3-Chloropropane	ND	4.9
1,2,4-Trichlorobenzene	ND	4.9
Hexachlorobutadiene	ND	4.9
Naphthalene	ND	4.9
1,2,3-Trichlorobenzene	ND	4.9

Surrogate	%REC	Limits
Dibromofluoromethane	122	78-134
1,2-Dichloroethane-d4	123	80-138
Toluene-d8	95	80-120
Bromofluorobenzene	125 *	78-123

*= Value outside of QC limits; see narrative
 ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-12 (4.5-5)	Diln Fac:	0.9141
Lab ID:	283234-012	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/13/16

Analyte	Result	RL
Freon 12	ND	9.1
Chloromethane	ND	9.1
Vinyl Chloride	ND	9.1
Bromomethane	ND	9.1
Chloroethane	ND	9.1
Trichlorofluoromethane	ND	4.6
Acetone	23	18
Freon 113	ND	4.6
1,1-Dichloroethene	ND	4.6
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.6
MTBE	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
Vinyl Acetate	ND	46
1,1-Dichloroethane	ND	4.6
2-Butanone	ND	9.1
cis-1,2-Dichloroethene	ND	4.6
2,2-Dichloropropane	ND	4.6
Chloroform	ND	4.6
Bromochloromethane	ND	4.6
1,1,1-Trichloroethane	ND	4.6
1,1-Dichloropropene	ND	4.6
Carbon Tetrachloride	ND	4.6
1,2-Dichloroethane	ND	4.6
Benzene	ND	4.6
Trichloroethene	ND	4.6
1,2-Dichloropropane	ND	4.6
Bromodichloromethane	ND	4.6
Dibromomethane	ND	4.6
4-Methyl-2-Pentanone	ND	9.1
cis-1,3-Dichloropropene	ND	4.6
Toluene	ND	4.6
trans-1,3-Dichloropropene	ND	4.6
1,1,2-Trichloroethane	ND	4.6
2-Hexanone	ND	9.1
1,3-Dichloropropane	ND	4.6
Tetrachloroethene	ND	4.6
Dibromochloromethane	ND	4.6
1,2-Dibromoethane	ND	4.6
Chlorobenzene	ND	4.6
1,1,1,2-Tetrachloroethane	ND	4.6
Ethylbenzene	ND	4.6
m,p-Xylenes	ND	4.6
o-Xylene	ND	4.6
Styrene	ND	4.6
Bromoform	ND	4.6
Isopropylbenzene	ND	4.6
1,1,2,2-Tetrachloroethane	ND	4.6
1,2,3-Trichloropropane	ND	4.6
Propylbenzene	ND	4.6
Bromobenzene	ND	4.6
1,3,5-Trimethylbenzene	ND	4.6
2-Chlorotoluene	ND	4.6

*= Value outside of QC limits; see narrative

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-12 (4.5-5)	Diln Fac:	0.9141
Lab ID:	283234-012	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/13/16

Analyte	Result	RL
4-Chlorotoluene	ND	4.6
tert-Butylbenzene	ND	4.6
1,2,4-Trimethylbenzene	ND	4.6
sec-Butylbenzene	ND	4.6
para-Isopropyl Toluene	ND	4.6
1,3-Dichlorobenzene	ND	4.6
1,4-Dichlorobenzene	ND	4.6
n-Butylbenzene	ND	4.6
1,2-Dichlorobenzene	ND	4.6
1,2-Dibromo-3-Chloropropane	ND	4.6
1,2,4-Trichlorobenzene	ND	4.6
Hexachlorobutadiene	ND	4.6
Naphthalene	ND	4.6
1,2,3-Trichlorobenzene	ND	4.6

Surrogate	%REC	Limits
Dibromofluoromethane	122	78-134
1,2-Dichloroethane-d4	120	80-138
Toluene-d8	95	80-120
Bromofluorobenzene	126 *	78-123

*= Value outside of QC limits; see narrative
 ND= Not Detected
 RL= Reporting Limit
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Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-16 (2-3)	Diln Fac:	0.9823
Lab ID:	283234-015	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Freon 12	ND	9.8
Chloromethane	ND	9.8
Vinyl Chloride	ND	9.8
Bromomethane	ND	9.8
Chloroethane	ND	9.8
Trichlorofluoromethane	ND	4.9
Acetone	43	20
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	20
Carbon Disulfide	ND	4.9
MTBE	ND	4.9
trans-1,2-Dichloroethene	ND	4.9
Vinyl Acetate	ND	49
1,1-Dichloroethane	ND	4.9
2-Butanone	ND	9.8
cis-1,2-Dichloroethene	ND	4.9
2,2-Dichloropropane	ND	4.9
Chloroform	ND	4.9
Bromochloromethane	ND	4.9
1,1,1-Trichloroethane	ND	4.9
1,1-Dichloropropene	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
Dibromomethane	ND	4.9
4-Methyl-2-Pentanone	ND	9.8
cis-1,3-Dichloropropene	ND	4.9
Toluene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	4.9
2-Hexanone	ND	9.8
1,3-Dichloropropane	ND	4.9
Tetrachloroethene	ND	4.9

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-16 (2-3)	Diln Fac:	0.9823
Lab ID:	283234-015	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Dibromochloromethane	ND	4.9
1,2-Dibromoethane	ND	4.9
Chlorobenzene	ND	4.9
1,1,1,2-Tetrachloroethane	ND	4.9
Ethylbenzene	ND	4.9
m,p-Xylenes	ND	4.9
o-Xylene	ND	4.9
Styrene	ND	4.9
Bromoform	ND	4.9
Isopropylbenzene	ND	4.9
1,1,2,2-Tetrachloroethane	ND	4.9
1,2,3-Trichloropropane	ND	4.9
Propylbenzene	ND	4.9
Bromobenzene	ND	4.9
1,3,5-Trimethylbenzene	ND	4.9
2-Chlorotoluene	ND	4.9
4-Chlorotoluene	ND	4.9
tert-Butylbenzene	ND	4.9
1,2,4-Trimethylbenzene	ND	4.9
sec-Butylbenzene	ND	4.9
para-Isopropyl Toluene	ND	4.9
1,3-Dichlorobenzene	ND	4.9
1,4-Dichlorobenzene	ND	4.9
n-Butylbenzene	ND	4.9
1,2-Dichlorobenzene	ND	4.9
1,2-Dibromo-3-Chloropropane	ND	4.9
1,2,4-Trichlorobenzene	ND	4.9
Hexachlorobutadiene	ND	4.9
Naphthalene	ND	4.9
1,2,3-Trichlorobenzene	ND	4.9

Surrogate	%REC	Limits
Dibromofluoromethane	120	78-134
1,2-Dichloroethane-d4	116	80-138
Toluene-d8	96	80-120
Bromofluorobenzene	120	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-16 (4.5-5)	Diln Fac:	0.9709
Lab ID:	283234-016	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Freon 12	ND	9.7
Chloromethane	ND	9.7
Vinyl Chloride	ND	9.7
Bromomethane	ND	9.7
Chloroethane	ND	9.7
Trichlorofluoromethane	ND	4.9
Acetone	38	19
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.9
MTBE	ND	4.9
trans-1,2-Dichloroethene	ND	4.9
Vinyl Acetate	ND	49
1,1-Dichloroethane	ND	4.9
2-Butanone	ND	9.7
cis-1,2-Dichloroethene	ND	4.9
2,2-Dichloropropane	ND	4.9
Chloroform	ND	4.9
Bromochloromethane	ND	4.9
1,1,1-Trichloroethane	ND	4.9
1,1-Dichloropropene	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
Dibromomethane	ND	4.9
4-Methyl-2-Pentanone	ND	9.7
cis-1,3-Dichloropropene	ND	4.9
Toluene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	4.9
2-Hexanone	ND	9.7
1,3-Dichloropropane	ND	4.9
Tetrachloroethene	ND	4.9

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-16 (4.5-5)	Diln Fac:	0.9709
Lab ID:	283234-016	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Dibromochloromethane	ND	4.9
1,2-Dibromoethane	ND	4.9
Chlorobenzene	ND	4.9
1,1,1,2-Tetrachloroethane	ND	4.9
Ethylbenzene	ND	4.9
m,p-Xylenes	ND	4.9
o-Xylene	ND	4.9
Styrene	ND	4.9
Bromoform	ND	4.9
Isopropylbenzene	ND	4.9
1,1,2,2-Tetrachloroethane	ND	4.9
1,2,3-Trichloropropane	ND	4.9
Propylbenzene	ND	4.9
Bromobenzene	ND	4.9
1,3,5-Trimethylbenzene	ND	4.9
2-Chlorotoluene	ND	4.9
4-Chlorotoluene	ND	4.9
tert-Butylbenzene	ND	4.9
1,2,4-Trimethylbenzene	ND	4.9
sec-Butylbenzene	ND	4.9
para-Isopropyl Toluene	ND	4.9
1,3-Dichlorobenzene	ND	4.9
1,4-Dichlorobenzene	ND	4.9
n-Butylbenzene	ND	4.9
1,2-Dichlorobenzene	ND	4.9
1,2-Dibromo-3-Chloropropane	ND	4.9
1,2,4-Trichlorobenzene	ND	4.9
Hexachlorobutadiene	ND	4.9
Naphthalene	ND	4.9
1,2,3-Trichlorobenzene	ND	4.9

Surrogate	%REC	Limits
Dibromofluoromethane	121	78-134
1,2-Dichloroethane-d4	115	80-138
Toluene-d8	94	80-120
Bromofluorobenzene	121	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-16 (12-12.5)	Diln Fac:	50.00
Lab ID:	283234-018	Batch#:	241344
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Freon 12	ND	500
Chloromethane	ND	500
Vinyl Chloride	ND	500
Bromomethane	ND	500
Chloroethane	ND	500
Trichlorofluoromethane	ND	250
Acetone	ND	1,000
Freon 113	ND	250
1,1-Dichloroethene	ND	250
Methylene Chloride	ND	1,000
Carbon Disulfide	ND	250
MTBE	ND	250
trans-1,2-Dichloroethene	ND	250
Vinyl Acetate	ND	2,500
1,1-Dichloroethane	ND	250
2-Butanone	ND	500
cis-1,2-Dichloroethene	ND	250
2,2-Dichloropropane	ND	250
Chloroform	ND	250
Bromochloromethane	ND	250
1,1,1-Trichloroethane	ND	250
1,1-Dichloropropene	ND	250
Carbon Tetrachloride	ND	250
1,2-Dichloroethane	ND	250
Benzene	ND	250
Trichloroethene	ND	250
1,2-Dichloropropane	ND	250
Bromodichloromethane	ND	250
Dibromomethane	ND	250
4-Methyl-2-Pentanone	ND	500
cis-1,3-Dichloropropene	ND	250
Toluene	ND	250
trans-1,3-Dichloropropene	ND	250
1,1,2-Trichloroethane	ND	250
2-Hexanone	ND	500
1,3-Dichloropropane	ND	250
Tetrachloroethene	ND	250

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-16 (12-12.5)	Diln Fac:	50.00
Lab ID:	283234-018	Batch#:	241344
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Dibromochloromethane	ND	250
1,2-Dibromoethane	ND	250
Chlorobenzene	ND	250
1,1,1,2-Tetrachloroethane	ND	250
Ethylbenzene	ND	250
m,p-Xylenes	ND	250
o-Xylene	ND	250
Styrene	ND	250
Bromoform	ND	250
Isopropylbenzene	260	250
1,1,2,2-Tetrachloroethane	ND	250
1,2,3-Trichloropropane	ND	250
Propylbenzene	1,500	250
Bromobenzene	ND	250
1,3,5-Trimethylbenzene	ND	250
2-Chlorotoluene	ND	250
4-Chlorotoluene	ND	250
tert-Butylbenzene	ND	250
1,2,4-Trimethylbenzene	ND	250
sec-Butylbenzene	520	250
para-Isopropyl Toluene	ND	250
1,3-Dichlorobenzene	ND	250
1,4-Dichlorobenzene	ND	250
n-Butylbenzene	1,900	250
1,2-Dichlorobenzene	ND	250
1,2-Dibromo-3-Chloropropane	ND	250
1,2,4-Trichlorobenzene	ND	250
Hexachlorobutadiene	ND	250
Naphthalene	ND	250
1,2,3-Trichlorobenzene	ND	250

Surrogate	%REC	Limits
Dibromofluoromethane	89	78-134
1,2-Dichloroethane-d4	106	80-138
Toluene-d8	106	80-120
Bromofluorobenzene	102	78-123
Trifluorotoluene (MeOH)	95	52-147

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-15 (2-3)	Diln Fac:	0.8210
Lab ID:	283234-021	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Freon 12	ND	8.2
Chloromethane	ND	8.2
Vinyl Chloride	ND	8.2
Bromomethane	ND	8.2
Chloroethane	ND	8.2
Trichlorofluoromethane	ND	4.1
Acetone	ND	16
Freon 113	ND	4.1
1,1-Dichloroethene	ND	4.1
Methylene Chloride	ND	16
Carbon Disulfide	ND	4.1
MTBE	ND	4.1
trans-1,2-Dichloroethene	ND	4.1
Vinyl Acetate	ND	41
1,1-Dichloroethane	ND	4.1
2-Butanone	ND	8.2
cis-1,2-Dichloroethene	ND	4.1
2,2-Dichloropropane	ND	4.1
Chloroform	ND	4.1
Bromochloromethane	ND	4.1
1,1,1-Trichloroethane	ND	4.1
1,1-Dichloropropene	ND	4.1
Carbon Tetrachloride	ND	4.1
1,2-Dichloroethane	ND	4.1
Benzene	ND	4.1
Trichloroethene	ND	4.1
1,2-Dichloropropane	ND	4.1
Bromodichloromethane	ND	4.1
Dibromomethane	ND	4.1
4-Methyl-2-Pentanone	ND	8.2
cis-1,3-Dichloropropene	ND	4.1
Toluene	ND	4.1
trans-1,3-Dichloropropene	ND	4.1
1,1,2-Trichloroethane	ND	4.1
2-Hexanone	ND	8.2
1,3-Dichloropropane	ND	4.1
Tetrachloroethene	ND	4.1

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-15 (2-3)	Diln Fac:	0.8210
Lab ID:	283234-021	Batch#:	241324
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Dibromochloromethane	ND	4.1
1,2-Dibromoethane	ND	4.1
Chlorobenzene	ND	4.1
1,1,1,2-Tetrachloroethane	ND	4.1
Ethylbenzene	ND	4.1
m,p-Xylenes	ND	4.1
o-Xylene	ND	4.1
Styrene	ND	4.1
Bromoform	ND	4.1
Isopropylbenzene	ND	4.1
1,1,2,2-Tetrachloroethane	ND	4.1
1,2,3-Trichloropropane	ND	4.1
Propylbenzene	ND	4.1
Bromobenzene	ND	4.1
1,3,5-Trimethylbenzene	ND	4.1
2-Chlorotoluene	ND	4.1
4-Chlorotoluene	ND	4.1
tert-Butylbenzene	ND	4.1
1,2,4-Trimethylbenzene	ND	4.1
sec-Butylbenzene	ND	4.1
para-Isopropyl Toluene	ND	4.1
1,3-Dichlorobenzene	ND	4.1
1,4-Dichlorobenzene	ND	4.1
n-Butylbenzene	ND	4.1
1,2-Dichlorobenzene	ND	4.1
1,2-Dibromo-3-Chloropropane	ND	4.1
1,2,4-Trichlorobenzene	ND	4.1
Hexachlorobutadiene	ND	4.1
Naphthalene	ND	4.1
1,2,3-Trichlorobenzene	ND	4.1

Surrogate	%REC	Limits
Dibromofluoromethane	109	78-134
1,2-Dichloroethane-d4	107	80-138
Toluene-d8	95	80-120
Bromofluorobenzene	111	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-15 (4.5-5)	Diln Fac:	0.8651
Lab ID:	283234-022	Batch#:	241326
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Freon 12	ND	8.7
Chloromethane	ND	8.7
Vinyl Chloride	ND	8.7
Bromomethane	ND	8.7
Chloroethane	ND	8.7
Trichlorofluoromethane	ND	4.3
Acetone	ND	17
Freon 113	ND	4.3
1,1-Dichloroethene	ND	4.3
Methylene Chloride	ND	17
Carbon Disulfide	ND	4.3
MTBE	ND	4.3
trans-1,2-Dichloroethene	ND	4.3
Vinyl Acetate	ND	43
1,1-Dichloroethane	ND	4.3
2-Butanone	ND	8.7
cis-1,2-Dichloroethene	ND	4.3
2,2-Dichloropropane	ND	4.3
Chloroform	ND	4.3
Bromochloromethane	ND	4.3
1,1,1-Trichloroethane	ND	4.3
1,1-Dichloropropene	ND	4.3
Carbon Tetrachloride	ND	4.3
1,2-Dichloroethane	ND	4.3
Benzene	ND	4.3
Trichloroethene	ND	4.3
1,2-Dichloropropane	ND	4.3
Bromodichloromethane	ND	4.3
Dibromomethane	ND	4.3
4-Methyl-2-Pentanone	ND	8.7
cis-1,3-Dichloropropene	ND	4.3
Toluene	ND	4.3
trans-1,3-Dichloropropene	ND	4.3
1,1,2-Trichloroethane	ND	4.3
2-Hexanone	ND	8.7
1,3-Dichloropropane	ND	4.3
Tetrachloroethene	ND	4.3

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-15 (4.5-5)	Diln Fac:	0.8651
Lab ID:	283234-022	Batch#:	241326
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Dibromochloromethane	ND	4.3
1,2-Dibromoethane	ND	4.3
Chlorobenzene	ND	4.3
1,1,1,2-Tetrachloroethane	ND	4.3
Ethylbenzene	ND	4.3
m,p-Xylenes	ND	4.3
o-Xylene	ND	4.3
Styrene	ND	4.3
Bromoform	ND	4.3
Isopropylbenzene	ND	4.3
1,1,2,2-Tetrachloroethane	ND	4.3
1,2,3-Trichloropropane	ND	4.3
Propylbenzene	ND	4.3
Bromobenzene	ND	4.3
1,3,5-Trimethylbenzene	ND	4.3
2-Chlorotoluene	ND	4.3
4-Chlorotoluene	ND	4.3
tert-Butylbenzene	ND	4.3
1,2,4-Trimethylbenzene	ND	4.3
sec-Butylbenzene	ND	4.3
para-Isopropyl Toluene	ND	4.3
1,3-Dichlorobenzene	ND	4.3
1,4-Dichlorobenzene	ND	4.3
n-Butylbenzene	ND	4.3
1,2-Dichlorobenzene	ND	4.3
1,2-Dibromo-3-Chloropropane	ND	4.3
1,2,4-Trichlorobenzene	ND	4.3
Hexachlorobutadiene	ND	4.3
Naphthalene	ND	4.3
1,2,3-Trichlorobenzene	ND	4.3

Surrogate	%REC	Limits
Dibromofluoromethane	97	78-134
1,2-Dichloroethane-d4	107	80-138
Toluene-d8	103	80-120
Bromofluorobenzene	100	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-15 (9.5-10)	Diln Fac:	0.9191
Lab ID:	283234-023	Batch#:	241326
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Freon 12	ND	9.2
Chloromethane	ND	9.2
Vinyl Chloride	ND	9.2
Bromomethane	ND	9.2
Chloroethane	ND	9.2
Trichlorofluoromethane	ND	4.6
Acetone	ND	18
Freon 113	ND	4.6
1,1-Dichloroethene	ND	4.6
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.6
MTBE	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
Vinyl Acetate	ND	46
1,1-Dichloroethane	ND	4.6
2-Butanone	ND	9.2
cis-1,2-Dichloroethene	ND	4.6
2,2-Dichloropropane	ND	4.6
Chloroform	ND	4.6
Bromochloromethane	ND	4.6
1,1,1-Trichloroethane	ND	4.6
1,1-Dichloropropene	ND	4.6
Carbon Tetrachloride	ND	4.6
1,2-Dichloroethane	ND	4.6
Benzene	ND	4.6
Trichloroethene	ND	4.6
1,2-Dichloropropane	ND	4.6
Bromodichloromethane	ND	4.6
Dibromomethane	ND	4.6
4-Methyl-2-Pentanone	ND	9.2
cis-1,3-Dichloropropene	ND	4.6
Toluene	ND	4.6
trans-1,3-Dichloropropene	ND	4.6
1,1,2-Trichloroethane	ND	4.6
2-Hexanone	ND	9.2
1,3-Dichloropropane	ND	4.6
Tetrachloroethene	ND	4.6

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-15 (9.5-10)	Diln Fac:	0.9191
Lab ID:	283234-023	Batch#:	241326
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/14/16

Analyte	Result	RL
Dibromochloromethane	ND	4.6
1,2-Dibromoethane	ND	4.6
Chlorobenzene	ND	4.6
1,1,1,2-Tetrachloroethane	ND	4.6
Ethylbenzene	ND	4.6
m,p-Xylenes	ND	4.6
o-Xylene	ND	4.6
Styrene	ND	4.6
Bromoform	ND	4.6
Isopropylbenzene	ND	4.6
1,1,2,2-Tetrachloroethane	ND	4.6
1,2,3-Trichloropropane	ND	4.6
Propylbenzene	ND	4.6
Bromobenzene	ND	4.6
1,3,5-Trimethylbenzene	ND	4.6
2-Chlorotoluene	ND	4.6
4-Chlorotoluene	ND	4.6
tert-Butylbenzene	ND	4.6
1,2,4-Trimethylbenzene	ND	4.6
sec-Butylbenzene	ND	4.6
para-Isopropyl Toluene	ND	4.6
1,3-Dichlorobenzene	ND	4.6
1,4-Dichlorobenzene	ND	4.6
n-Butylbenzene	ND	4.6
1,2-Dichlorobenzene	ND	4.6
1,2-Dibromo-3-Chloropropane	ND	4.6
1,2,4-Trichlorobenzene	ND	4.6
Hexachlorobutadiene	ND	4.6
Naphthalene	ND	4.6
1,2,3-Trichlorobenzene	ND	4.6

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-134
1,2-Dichloroethane-d4	109	80-138
Toluene-d8	104	80-120
Bromofluorobenzene	105	78-123

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-11 (14.5-15)	Diln Fac:	0.9960
Lab ID:	283234-033	Batch#:	241442
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/16/16

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	170	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-11 (14.5-15)	Diln Fac:	0.9960
Lab ID:	283234-033	Batch#:	241442
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Analyzed:	11/16/16

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	126	78-134
1,2-Dichloroethane-d4	124	80-138
Toluene-d8	94	80-120
Bromofluorobenzene	121	78-123

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860335	Batch#:	241324
Matrix:	Soil	Analyzed:	11/13/16
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	25.66	103	70-134
Benzene	25.00	22.19	89	80-123
Trichloroethene	25.00	23.71	95	80-128
Toluene	25.00	21.77	87	80-120
Chlorobenzene	25.00	23.06	92	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	120	78-134
1,2-Dichloroethane-d4	113	80-138
Toluene-d8	94	80-120
Bromofluorobenzene	116	78-123

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860336	Batch#:	241324
Matrix:	Soil	Analyzed:	11/13/16
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860336	Batch#:	241324
Matrix:	Soil	Analyzed:	11/13/16
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	122	78-134
1,2-Dichloroethane-d4	118	80-138
Toluene-d8	94	80-120
Bromofluorobenzene	119	78-123

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860342	Batch#:	241326
Matrix:	Soil	Analyzed:	11/13/16
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860342	Batch#:	241326
Matrix:	Soil	Analyzed:	11/13/16
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	93	78-134
1,2-Dichloroethane-d4	103	80-138
Toluene-d8	102	80-120
Bromofluorobenzene	101	78-123

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	241324
MSS Lab ID:	283240-001	Sampled:	11/09/16
Matrix:	Soil	Received:	11/10/16
Units:	ug/Kg	Analyzed:	11/13/16
Basis:	as received		

Type: MS Diln Fac: 0.9191
 Lab ID: QC860348

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.4576	45.96	57.60	125	56-133
Benzene	<0.5092	45.96	45.39	99	57-120
Trichloroethene	<0.5068	45.96	51.14	111	49-145
Toluene	<0.4191	45.96	44.09	96	51-120
Chlorobenzene	<0.7206	45.96	46.21	101	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	127	78-134
1,2-Dichloroethane-d4	109	80-138
Toluene-d8	97	80-120
Bromofluorobenzene	117	78-123

Type: MSD Diln Fac: 1.089
 Lab ID: QC860349

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	54.47	67.75	124	56-133	1	46
Benzene	54.47	54.05	99	57-120	0	44
Trichloroethene	54.47	60.36	111	49-145	0	46
Toluene	54.47	53.85	99	51-120	3	47
Chlorobenzene	54.47	55.90	103	47-120	2	50

Surrogate	%REC	Limits
Dibromofluoromethane	118	78-134
1,2-Dichloroethane-d4	99	80-138
Toluene-d8	96	80-120
Bromofluorobenzene	117	78-123

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Basis:	as received
MSS Lab ID:	283260-004	Batch#:	241326
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16

Type: MS Diln Fac: 0.9597
 Lab ID: QC860350 Analyzed: 11/13/16

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5916	47.98	42.14	88	56-133
Benzene	<0.6892	47.98	46.49	97	57-120
Trichloroethene	<0.7179	47.98	49.80	104	49-145
Toluene	<0.7549	47.98	43.11	90	51-120
Chlorobenzene	<0.6189	47.98	39.64	83	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	98	78-134
1,2-Dichloroethane-d4	114	80-138
Toluene-d8	103	80-120
Bromofluorobenzene	83	78-123

Type: MSD Diln Fac: 0.9940
 Lab ID: QC860351 Analyzed: 11/14/16

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	49.70	44.27	89	56-133	1	46
Benzene	49.70	48.24	97	57-120	0	44
Trichloroethene	49.70	55.33	111	49-145	7	46
Toluene	49.70	45.31	91	51-120	1	47
Chlorobenzene	49.70	41.41	83	47-120	1	50

Surrogate	%REC	Limits
Dibromofluoromethane	98	78-134
1,2-Dichloroethane-d4	112	80-138
Toluene-d8	102	80-120
Bromofluorobenzene	86	78-123

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860420	Batch#:	241344
Matrix:	Soil	Analyzed:	11/14/16
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	20.52	82	70-134
Benzene	25.00	23.99	96	80-123
Trichloroethene	25.00	21.65	87	80-128
Toluene	25.00	23.29	93	80-120
Chlorobenzene	25.00	21.42	86	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	98	78-134
1,2-Dichloroethane-d4	114	80-138
Toluene-d8	107	80-120
Bromofluorobenzene	102	78-123

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860421	Batch#:	241344
Matrix:	Soil	Analyzed:	11/14/16
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5035
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860421	Batch#:	241344
Matrix:	Soil	Analyzed:	11/14/16
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	101	78-134
1,2-Dichloroethane-d4	110	80-138
Toluene-d8	108	80-120
Bromofluorobenzene	109	78-123

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	241344
MSS Lab ID:	283279-001	Sampled:	11/10/16
Matrix:	Soil	Received:	11/11/16
Units:	ug/Kg	Analyzed:	11/14/16
Basis:	as received		

Type: MS Diln Fac: 0.9542
 Lab ID: QC860503

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5574	47.71	35.76	75	56-133
Benzene	<0.6494	47.71	42.48	89	57-120
Trichloroethene	<0.6764	47.71	39.00	82	49-145
Toluene	<0.7114	47.71	42.57	89	51-120
Chlorobenzene	<0.5832	47.71	39.04	82	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	91	78-134
1,2-Dichloroethane-d4	107	80-138
Toluene-d8	106	80-120
Bromofluorobenzene	83	78-123

Type: MSD Diln Fac: 0.9174
 Lab ID: QC860504

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	45.87	38.30	83	56-133	11	46
Benzene	45.87	44.95	98	57-120	10	44
Trichloroethene	45.87	41.25	90	49-145	10	46
Toluene	45.87	44.95	98	51-120	9	47
Chlorobenzene	45.87	40.83	89	47-120	8	50

Surrogate	%REC	Limits
Dibromofluoromethane	91	78-134
1,2-Dichloroethane-d4	105	80-138
Toluene-d8	106	80-120
Bromofluorobenzene	82	78-123

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860805	Batch#:	241442
Matrix:	Soil	Analyzed:	11/16/16
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860805	Batch#:	241442
Matrix:	Soil	Analyzed:	11/16/16
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	116	78-134
1,2-Dichloroethane-d4	112	80-138
Toluene-d8	93	80-120
Bromofluorobenzene	118	78-123

ND= Not Detected

RL= Reporting Limit

Semivolatile Organics by GC/MS SIM

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-11 (0-1)	Batch#:	241240
Lab ID:	283234-001	Sampled:	11/10/16
Matrix:	Soil	Received:	11/10/16
Units:	ug/Kg	Prepared:	11/11/16
Basis:	as received	Analyzed:	11/11/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Naphthalene	2.6 J	5.0	1.0
Acenaphthylene	ND	5.0	1.0
Acenaphthene	ND	5.0	1.0
Fluorene	ND	5.0	1.0
Phenanthrene	ND	5.0	1.0
Anthracene	ND	5.0	1.0
Fluoranthene	ND	5.0	1.0
Pyrene	ND	5.0	1.0
Benzo(a)anthracene	ND	5.0	1.0
Chrysene	ND	5.0	1.0
Benzo(b)fluoranthene	ND	5.0	1.0
Benzo(k)fluoranthene	ND	5.0	1.0
Benzo(a)pyrene	ND	5.0	1.0
Indeno(1,2,3-cd)pyrene	ND	5.0	1.0
Dibenz(a,h)anthracene	ND	5.0	1.0
Benzo(g,h,i)perylene	ND	5.0	1.0

Surrogate	%REC	Limits
Nitrobenzene-d5	115	40-120
2-Fluorobiphenyl	95	46-120
Terphenyl-d14	105	43-120

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-11 (2-3)	Batch#:	241413
Lab ID:	283234-002	Sampled:	11/10/16
Matrix:	Soil	Received:	11/10/16
Units:	ug/Kg	Prepared:	11/15/16
Basis:	as received	Analyzed:	11/21/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Naphthalene	ND	4.9	0.99
Acenaphthylene	ND	4.9	0.99
Acenaphthene	ND	4.9	0.99
Fluorene	ND	4.9	0.99
Phenanthrene	ND	4.9	0.99
Anthracene	ND	4.9	0.99
Fluoranthene	ND	4.9	0.99
Pyrene	ND	4.9	0.99
Benzo(a)anthracene	ND	4.9	0.99
Chrysene	ND	4.9	0.99
Benzo(b)fluoranthene	ND	4.9	0.99
Benzo(k)fluoranthene	ND	4.9	0.99
Benzo(a)pyrene	ND	4.9	0.99
Indeno(1,2,3-cd)pyrene	ND	4.9	0.99
Dibenz(a,h)anthracene	ND	4.9	0.99
Benzo(g,h,i)perylene	ND	4.9	0.99

Surrogate	%REC	Limits
Nitrobenzene-d5	99	40-120
2-Fluorobiphenyl	85	46-120
Terphenyl-d14	88	43-120

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-10 (0-1)	Batch#:	241413
Lab ID:	283234-005	Sampled:	11/10/16
Matrix:	Soil	Received:	11/10/16
Units:	ug/Kg	Prepared:	11/15/16
Basis:	as received	Analyzed:	11/21/16
Diln Fac:	33.30		

Analyte	Result	RL	MDL
Naphthalene	ND	170	34
Acenaphthylene	ND	170	34
Acenaphthene	ND	170	34
Fluorene	ND	170	34
Phenanthrene	ND	170	34
Anthracene	ND	170	34
Fluoranthene	ND	170	34
Pyrene	ND	170	34
Benzo(a)anthracene	ND	170	34
Chrysene	ND	170	34
Benzo(b)fluoranthene	ND	170	34
Benzo(k)fluoranthene	ND	170	34
Benzo(a)pyrene	ND	170	34
Indeno(1,2,3-cd)pyrene	ND	170	34
Dibenz(a,h)anthracene	ND	170	34
Benzo(g,h,i)perylene	ND	170	34

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	40-120
2-Fluorobiphenyl	DO	46-120
Terphenyl-d14	DO	43-120

DO= Diluted Out

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-16 (0-1)	Batch#:	241413
Lab ID:	283234-014	Sampled:	11/10/16
Matrix:	Soil	Received:	11/10/16
Units:	ug/Kg	Prepared:	11/15/16
Basis:	as received	Analyzed:	11/21/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Naphthalene	1.1 J	5.0	1.0
Acenaphthylene	ND	5.0	1.0
Acenaphthene	ND	5.0	1.0
Fluorene	ND	5.0	1.0
Phenanthrene	ND	5.0	1.0
Anthracene	ND	5.0	1.0
Fluoranthene	ND	5.0	1.0
Pyrene	ND	5.0	1.0
Benzo(a)anthracene	ND	5.0	1.0
Chrysene	ND	5.0	1.0
Benzo(b)fluoranthene	ND	5.0	1.0
Benzo(k)fluoranthene	ND	5.0	1.0
Benzo(a)pyrene	ND	5.0	1.0
Indeno(1,2,3-cd)pyrene	ND	5.0	1.0
Dibenz(a,h)anthracene	ND	5.0	1.0
Benzo(g,h,i)perylene	ND	5.0	1.0

Surrogate	%REC	Limits
Nitrobenzene-d5	75	40-120
2-Fluorobiphenyl	76	46-120
Terphenyl-d14	86	43-120

J= Estimated value
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Semivolatile Organics by GC/MS SIM

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-16 (12-12.5)	Batch#:	241413
Lab ID:	283234-018	Sampled:	11/10/16
Matrix:	Soil	Received:	11/10/16
Units:	ug/Kg	Prepared:	11/15/16
Basis:	as received		

Analyte	Result	RL	MDL	Diln Fac	Analyzed
Naphthalene	1,200	31	6.3	6.250	11/22/16
Acenaphthylene	21	5.0	1.0	1.000	11/21/16
Acenaphthene	30	5.0	1.0	1.000	11/21/16
Fluorene	37	5.0	1.0	1.000	11/21/16
Phenanthrene	71	5.0	1.0	1.000	11/21/16
Anthracene	13	5.0	1.0	1.000	11/21/16
Fluoranthene	18	5.0	1.0	1.000	11/21/16
Pyrene	25	5.0	1.0	1.000	11/21/16
Benzo(a)anthracene	6.3	5.0	1.0	1.000	11/21/16
Chrysene	6.9	5.0	1.0	1.000	11/21/16
Benzo(b)fluoranthene	2.4 J	5.0	1.0	1.000	11/21/16
Benzo(k)fluoranthene	ND	5.0	1.0	1.000	11/21/16
Benzo(a)pyrene	2.7 J	5.0	1.0	1.000	11/21/16
Indeno(1,2,3-cd)pyrene	ND	5.0	1.0	1.000	11/21/16
Dibenz(a,h)anthracene	ND	5.0	1.0	1.000	11/21/16
Benzo(g,h,i)perylene	3.1 J	5.0	1.0	1.000	11/21/16

Surrogate	%REC	Limits	Diln Fac	Analyzed
Nitrobenzene-d5	78	40-120	1.000	11/21/16
2-Fluorobiphenyl	82	46-120	1.000	11/21/16
Terphenyl-d14	98	43-120	1.000	11/21/16

J= Estimated value

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Batch QC Report
Semivolatile Organics by GC/MS SIM

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC859998	Batch#:	241240
Matrix:	Soil	Prepared:	11/10/16
Units:	ug/Kg	Analyzed:	11/10/16

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	0.99
Acenaphthylene	ND	5.0	0.99
Acenaphthene	ND	5.0	0.99
Fluorene	ND	5.0	0.99
Phenanthrene	ND	5.0	0.99
Anthracene	ND	5.0	0.99
Fluoranthene	ND	5.0	0.99
Pyrene	ND	5.0	0.99
Benzo(a)anthracene	ND	5.0	0.99
Chrysene	ND	5.0	0.99
Benzo(b)fluoranthene	ND	5.0	0.99
Benzo(k)fluoranthene	ND	5.0	0.99
Benzo(a)pyrene	ND	5.0	0.99
Indeno(1,2,3-cd)pyrene	ND	5.0	0.99
Dibenz(a,h)anthracene	ND	5.0	0.99
Benzo(g,h,i)perylene	ND	5.0	0.99

Surrogate	%REC	Limits
Nitrobenzene-d5	97	40-120
2-Fluorobiphenyl	85	46-120
Terphenyl-d14	96	43-120

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC859999	Batch#:	241240
Matrix:	Soil	Prepared:	11/10/16
Units:	ug/Kg	Analyzed:	11/10/16

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.17	34.94	105	49-120
Pyrene	33.17	39.86	120	48-120

Surrogate	%REC	Limits
Nitrobenzene-d5	135 *	40-120
2-Fluorobiphenyl	109	46-120
Terphenyl-d14	127 *	43-120

*= Value outside of QC limits; see narrative

Batch QC Report
Semivolatile Organics by GC/MS SIM

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC860685	Batch#:	241413
Matrix:	Soil	Prepared:	11/15/16
Units:	ug/Kg	Analyzed:	11/19/16

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	1.0
Acenaphthylene	ND	5.0	1.0
Acenaphthene	ND	5.0	1.0
Fluorene	ND	5.0	1.0
Phenanthrene	ND	5.0	1.0
Anthracene	ND	5.0	1.0
Fluoranthene	ND	5.0	1.0
Pyrene	ND	5.0	1.0
Benzo(a)anthracene	ND	5.0	1.0
Chrysene	ND	5.0	1.0
Benzo(b)fluoranthene	ND	5.0	1.0
Benzo(k)fluoranthene	ND	5.0	1.0
Benzo(a)pyrene	ND	5.0	1.0
Indeno(1,2,3-cd)pyrene	ND	5.0	1.0
Dibenz(a,h)anthracene	ND	5.0	1.0
Benzo(g,h,i)perylene	ND	5.0	1.0

Surrogate	%REC	Limits
Nitrobenzene-d5	108	40-120
2-Fluorobiphenyl	102	46-120
Terphenyl-d14	109	43-120

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860686	Batch#:	241413
Matrix:	Soil	Prepared:	11/15/16
Units:	ug/Kg	Analyzed:	11/19/16

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.31	32.41	97	49-120
Pyrene	33.31	32.48	97	48-120

Surrogate	%REC	Limits
Nitrobenzene-d5	112	40-120
2-Fluorobiphenyl	105	46-120
Terphenyl-d14	108	43-120

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	241413
MSS Lab ID:	283256-005	Sampled:	11/10/16
Matrix:	Soil	Received:	11/10/16
Units:	ug/Kg	Prepared:	11/15/16
Basis:	as received	Analyzed:	11/20/16
Diln Fac:	4.000		

Type: MS Lab ID: QC860687

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<1.004	33.42	24.40	73	43-120
Pyrene	2.701	33.42	31.90	87	18-144

Surrogate	%REC	Limits
Nitrobenzene-d5	83	40-120
2-Fluorobiphenyl	79	46-120
Terphenyl-d14	81	43-120

Type: MSD Lab ID: QC860688

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	33.36	26.43	79	43-120	8	45
Pyrene	33.36	29.61	81	18-144	7	72

Surrogate	%REC	Limits
Nitrobenzene-d5	88	40-120
2-Fluorobiphenyl	85	46-120
Terphenyl-d14	87	43-120

RPD= Relative Percent Difference

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Field ID:	EB-11 (0-1)	Batch#:	241490
Lab ID:	283234-001	Sampled:	11/10/16
Matrix:	Soil	Received:	11/10/16
Units:	ug/Kg	Prepared:	11/17/16
Basis:	as received	Analyzed:	11/21/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
alpha-BHC	ND	0.85	0.23
beta-BHC	ND #	0.85	0.22
gamma-BHC	ND	0.85	0.23
delta-BHC	ND	0.85	0.20
Heptachlor	ND	0.85	0.25
Aldrin	ND	0.85	0.25
Heptachlor epoxide	ND #	0.85	0.20
Endosulfan I	ND	0.85	0.22
Dieldrin	ND	0.85	0.14
4,4'-DDE	1.1 C J #	1.7	0.37
Endrin	ND	1.7	0.47
Endosulfan II	ND	1.7	0.40
Endosulfan sulfate	ND	1.7	0.49
4,4'-DDD	ND	1.7	0.37
Endrin aldehyde	ND	1.7	0.37
4,4'-DDT	ND	1.7	0.43
Chlordane (Technical)	ND	15	3.9
alpha-Chlordane	ND #	0.85	0.20
gamma-Chlordane	ND #	0.85	0.27
Methoxychlor	ND	8.5	2.5
Toxaphene	ND	30	8.3

Surrogate	%REC	Limits
TCMX	135 *	>LR b 44-125
Decachlorobiphenyl	113	39-121

#= CCV drift outside limits; average CCV drift within limits per method requirements

*= Value outside of QC limits; see narrative

C= Presence confirmed, but RPD between columns exceeds 40%

J= Estimated value

b= See narrative

ND= Not Detected at or above MDL

RL= Reporting Limit

>LR= Response exceeds instrument's linear range

MDL= Method Detection Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Field ID:	EB-11 (2-3)	Batch#:	241490
Lab ID:	283234-002	Sampled:	11/10/16
Matrix:	Soil	Received:	11/10/16
Units:	ug/Kg	Prepared:	11/17/16
Basis:	as received	Analyzed:	11/21/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
alpha-BHC	ND	0.84	0.22
beta-BHC	ND #	0.84	0.22
gamma-BHC	ND	0.84	0.23
delta-BHC	ND	0.84	0.20
Heptachlor	ND	0.84	0.25
Aldrin	ND	0.84	0.25
Heptachlor epoxide	ND #	0.84	0.19
Endosulfan I	ND	0.84	0.22
Dieldrin	ND	0.84	0.14
4,4'-DDE	ND #	1.6	0.36
Endrin	ND	1.6	0.46
Endosulfan II	ND	1.6	0.40
Endosulfan sulfate	ND	1.6	0.48
4,4'-DDD	ND	1.6	0.37
Endrin aldehyde	ND	1.6	0.37
4,4'-DDT	ND	1.6	0.42
Chlordane (Technical)	ND	15	3.9
alpha-Chlordane	ND #	0.84	0.20
gamma-Chlordane	ND #	0.84	0.26
Methoxychlor	ND	8.4	2.5
Toxaphene	ND	30	8.2

Surrogate	%REC	Limits
TCMX	58	44-125
Decachlorobiphenyl	96	39-121

#= CCV drift outside limits; average CCV drift within limits per method requirements
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Field ID:	EB-10 (0-1)	Batch#:	241490
Lab ID:	283234-005	Sampled:	11/10/16
Matrix:	Soil	Received:	11/10/16
Units:	ug/Kg	Prepared:	11/17/16
Basis:	as received	Analyzed:	11/21/16
Diln Fac:	5.000		

Analyte	Result	RL	MDL
alpha-BHC	ND	4.2	1.1
beta-BHC	ND #	4.2	1.1
gamma-BHC	ND	4.2	1.2
delta-BHC	ND	4.2	1.0
Heptachlor	ND	4.2	1.3
Aldrin	ND	4.2	1.2
Heptachlor epoxide	ND #	4.2	0.98
Endosulfan I	ND	4.2	1.1
Dieldrin	ND	4.2	0.72
4,4'-DDE	ND #	8.2	1.8
Endrin	ND	8.2	2.3
Endosulfan II	ND	8.2	2.0
Endosulfan sulfate	ND	8.2	2.4
4,4'-DDD	ND	8.2	1.8
Endrin aldehyde	ND	8.2	1.9
4,4'-DDT	ND	8.2	2.1
Chlordane (Technical)	ND	75	19
alpha-Chlordane	ND #	4.2	1.0
gamma-Chlordane	ND #	4.2	1.3
Methoxychlor	ND	42	13
Toxaphene	ND	150	42

Surrogate	%REC	Limits
TCMX	52	44-125
Decachlorobiphenyl	118	39-121

#= CCV drift outside limits; average CCV drift within limits per method requirements
 ND= Not Detected at or above MDL
 RL= Reporting Limit
 MDL= Method Detection Limit

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Field ID:	EB-16 (12-12.5)	Batch#:	241490
Lab ID:	283234-018	Sampled:	11/10/16
Matrix:	Soil	Received:	11/10/16
Units:	ug/Kg	Prepared:	11/17/16
Basis:	as received	Analyzed:	11/21/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
alpha-BHC	ND	0.85	0.23
beta-BHC	ND #	0.85	0.22
gamma-BHC	ND	0.85	0.23
delta-BHC	ND	0.85	0.20
Heptachlor	ND	0.85	0.25
Aldrin	ND	0.85	0.25
Heptachlor epoxide	ND #	0.85	0.20
Endosulfan I	1.1 C	0.85	0.22
Dieldrin	ND	0.85	0.14
4,4'-DDE	ND #	1.7	0.37
Endrin	ND	1.7	0.47
Endosulfan II	ND	1.7	0.40
Endosulfan sulfate	ND	1.7	0.49
4,4'-DDD	ND	1.7	0.37
Endrin aldehyde	ND	1.7	0.37
4,4'-DDT	ND	1.7	0.43
Chlordane (Technical)	ND	15	3.9
alpha-Chlordane	ND #	0.85	0.20
gamma-Chlordane	ND #	0.85	0.27
Methoxychlor	ND	8.5	2.5
Toxaphene	ND	30	8.4

Surrogate	%REC	Limits
TCMX	50	44-125
Decachlorobiphenyl	102	39-121

#= CCV drift outside limits; average CCV drift within limits per method requirements

C= Presence confirmed, but RPD between columns exceeds 40%

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Batch QC Report
Curtis & Tompkins Laboratories Analytical Report

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC861059	Batch#:	241490
Matrix:	Soil	Prepared:	11/17/16
Units:	ug/Kg	Analyzed:	11/21/16

Analyte	Result	RL	MDL
alpha-BHC	ND	0.84	0.22
beta-BHC	ND #	0.84	0.22
gamma-BHC	ND	0.84	0.23
delta-BHC	ND	0.84	0.20
Heptachlor	ND	0.84	0.25
Aldrin	ND	0.84	0.25
Heptachlor epoxide	ND #	0.84	0.19
Endosulfan I	ND	0.84	0.22
Dieldrin	ND	0.84	0.14
4,4'-DDE	ND #	1.6	0.36
Endrin	ND	1.6	0.46
Endosulfan II	ND	1.6	0.40
Endosulfan sulfate	ND	1.6	0.48
4,4'-DDD	ND	1.6	0.37
Endrin aldehyde	ND	1.6	0.37
4,4'-DDT	ND	1.6	0.42
Chlordane (Technical)	ND	15	3.9
alpha-Chlordane	ND #	0.84	0.20
gamma-Chlordane	ND #	0.84	0.26
Methoxychlor	ND	8.4	2.5
Toxaphene	ND	30	8.2

Surrogate	%REC	Limits
TCMX	56	44-125
Decachlorobiphenyl	106	39-121

#= CCV drift outside limits; average CCV drift within limits per method requirements

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC861063	Batch#:	241490
Matrix:	Soil	Prepared:	11/17/16
Units:	ug/Kg	Analyzed:	11/21/16

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	6.605	5.703	86	44-121
Heptachlor	6.605	5.733	87	45-129
Aldrin	6.605	5.582	85	45-120
Dieldrin	6.605	5.385	82	49-131
Endrin	6.605	5.319	81	43-135
4,4'-DDT	6.605	5.459	83	37-141

Surrogate	%REC	Limits
TCMX	59	44-125
Decachlorobiphenyl	115	39-121

Low-Level PCBs			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8082
Field ID:	EB-16 (12-12.5)	Batch#:	241437
Matrix:	Soil	Sampled:	11/10/16
Units:	ug/Kg	Received:	11/10/16
Basis:	as received	Prepared:	11/16/16

Type: SAMPLE Lab ID: 283234-018

Analyte	Result	RL	Diln Fac	Analyzed
Aroclor-1016	ND	4.8	1.000	11/19/16
Aroclor-1221	ND	9.5	1.000	11/19/16
Aroclor-1232	ND	4.8	1.000	11/19/16
Aroclor-1242	ND	4.8	1.000	11/19/16
Aroclor-1248	ND	4.8	1.000	11/19/16
Aroclor-1254	ND	4.8	1.000	11/19/16
Aroclor-1260	ND	4.8	1.000	11/19/16

Surrogate	%REC	Limits	Diln Fac	Analyzed
TCMX	255 *	46-141	2.000	11/29/16
Decachlorobiphenyl	204 *	25-135	2.000	11/29/16

Type: BLANK Diln Fac: 1.000
 Lab ID: QC860784 Analyzed: 11/22/16

Analyte	Result	RL
Aroclor-1016	ND	4.8
Aroclor-1221	ND	9.6
Aroclor-1232	ND	4.8
Aroclor-1242	ND	4.8
Aroclor-1248	ND	4.8
Aroclor-1254	ND	4.8
Aroclor-1260	ND	4.8

Surrogate	%REC	Limits
TCMX	100	46-141
Decachlorobiphenyl	117	25-135

*= Value outside of QC limits; see narrative
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Low-Level PCBs			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC860785	Batch#:	241437
Matrix:	Soil	Prepared:	11/16/16
Units:	ug/Kg	Analyzed:	11/22/16

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	167.5	151.0	90	64-140
Aroclor-1260	167.5	176.5	105	65-146

Surrogate	%REC	Limits
TCMX	85	46-141
Decachlorobiphenyl	102	25-135

Batch QC Report

Low-Level PCBs			
Lab #:	283234	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	241437
MSS Lab ID:	283254-002	Sampled:	11/10/16
Matrix:	Soil	Received:	11/10/16
Units:	ug/Kg	Prepared:	11/16/16
Basis:	as received	Analyzed:	11/22/16
Diln Fac:	1.000		

Type: MS Lab ID: QC860786

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<1.199	166.8	144.4	87	60-161
Aroclor-1260	<0.7841	166.8	160.7	96	42-166

Surrogate	%REC	Limits
TCMX	81	46-141
Decachlorobiphenyl	89	25-135

Type: MSD Lab ID: QC860787

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	167.8	155.5	93	60-161	7	43
Aroclor-1260	167.8	169.2	101	42-166	5	51

Surrogate	%REC	Limits
TCMX	85	46-141
Decachlorobiphenyl	92	25-135

RPD= Relative Percent Difference

Laboratory Job Number 283234

Subcontracted Products

Enthalpy Analytical



Enthalpy Analytical, Inc.

Formerly Associated Labs
806 N. Batavia - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.associatedlabs.com
info-sc@enthalpy.com



Client: Curtis & Tompkins
Address: 2323 Fifth Street
Berkeley, CA 94710

Attn: Will Rice

Comments: Project Number: 283234
Site: 914 W. Grand

Lab Request: 384549
Report Date: 11/30/2016
Date Received: 11/18/2016
Client ID: 15279

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample # Client Sample ID

384549-001 EB-11 (0-1)
384549-002 EB-11 (2-3)
384549-003 EB-10 (0-1)
384549-004 EB-16 (0-1)
384549-005 EB-16 (12-12.5)

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Report Review performed by: Winston Yu, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/10/2016 09:25	Site:	
Sample #: <u>384549-001</u>	Client Sample #: EB-11 (0-1)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>		Prep Method: EPA 3050B		QCBatchID: QC1172831			
Antimony	ND	1	3	mg/Kg	11/26/16	11/28/16	KLN
Arsenic	6.72	1	1	mg/Kg	11/26/16	11/28/16	KLN
Barium	318	1	1	mg/Kg	11/26/16	11/28/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Cadmium	0.50	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Chromium	19.8	1	1	mg/Kg	11/26/16	11/28/16	KLN
Cobalt	5.84	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Copper	26.6	1	1	mg/Kg	11/26/16	11/28/16	KLN
Lead	222	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Nickel	21.3	1	1.5	mg/Kg	11/26/16	11/28/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/28/16	KLN
Vanadium	26.4	1	0.5	mg/Kg	11/26/16	11/28/16	KLN
Zinc	93.5	1	5	mg/Kg	11/26/16	11/28/16	KLN

Method: EPA 7471A <i>NELAC</i>		Prep Method: EPA 7471A		QCBatchID: QC1172934			
Mercury	0.81	1	0.14	mg/Kg	11/29/16	11/29/16	JP

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/10/2016 09:35	Site:	
Sample #: <u>384549-002</u>	Client Sample #: EB-11 (2-3)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>		Prep Method: EPA 3050B		QCBatchID: QC1172831			
Antimony	ND	1	3	mg/Kg	11/26/16	11/29/16	KLN
Arsenic	2.04	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	118	1	1	mg/Kg	11/26/16	11/29/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Cadmium	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Chromium	43.8	1	1	mg/Kg	11/26/16	11/29/16	KLN
Cobalt	10.0	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Copper	13.6	1	1	mg/Kg	11/26/16	11/29/16	KLN
Lead	5.69	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	31.5	1	1.5	mg/Kg	11/26/16	11/29/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Vanadium	25.5	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Zinc	23.3	1	5	mg/Kg	11/26/16	11/29/16	KLN

Method: EPA 7471A <i>NELAC</i>		Prep Method: EPA 7471A		QCBatchID: QC1172934			
Mercury	ND	1	0.14	mg/Kg	11/29/16	11/29/16	JP

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/10/2016 10:41	Site:	
Sample #: <u>384549-003</u>	Client Sample #: EB-10 (0-1)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>	Prep Method: EPA 3050B					QCBatchID: QC1172831	
Antimony	ND	1	3	mg/Kg	11/26/16	11/29/16	KLN
Arsenic	2.96	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	125	1	1	mg/Kg	11/26/16	11/29/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Cadmium	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Chromium	45.9	1	1	mg/Kg	11/26/16	11/29/16	KLN
Cobalt	6.25	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Copper	12.9	1	1	mg/Kg	11/26/16	11/29/16	KLN
Lead	11.5	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	24.4	1	1.5	mg/Kg	11/26/16	11/29/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Vanadium	31.2	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Zinc	28.2	1	5	mg/Kg	11/26/16	11/29/16	KLN

Method: EPA 7471A <i>NELAC</i>	Prep Method: EPA 7471A					QCBatchID: QC1172934	
Mercury	0.14	1	0.14	mg/Kg	11/29/16	11/29/16	JP

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/10/2016 11:25	Site:	
Sample #: <u>384549-004</u>	Client Sample #: EB-16 (0-1)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>	Prep Method: EPA 3050B					QCBatchID: QC1172831	
Antimony	ND	1	3	mg/Kg	11/26/16	11/29/16	KLN
Arsenic	3.35	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	58.7	1	1	mg/Kg	11/26/16	11/29/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Cadmium	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Chromium	42.4	1	1	mg/Kg	11/26/16	11/29/16	KLN
Cobalt	7.50	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Copper	14.9	1	1	mg/Kg	11/26/16	11/29/16	KLN
Lead	13.3	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	42.1	1	1.5	mg/Kg	11/26/16	11/29/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Vanadium	24.8	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Zinc	39.5	1	5	mg/Kg	11/26/16	11/29/16	KLN

Method: EPA 7471A <i>NELAC</i>	Prep Method: EPA 7471A					QCBatchID: QC1172934	
Mercury	ND	1	0.14	mg/Kg	11/29/16	11/29/16	JP

Matrix: Solid	Client: Curtis & Tompkins	Collector: Client
Sampled: 11/10/2016 11:50	Site:	
Sample #: <u>384549-005</u>	Client Sample #: EB-16 (12-12.5)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: EPA 6010B <i>NELAC</i>		Prep Method: EPA 3050B		QCBatchID: QC1172831			
Antimony	ND	1	3	mg/Kg	11/26/16	11/29/16	KLN
Arsenic	6.70	1	1	mg/Kg	11/26/16	11/29/16	KLN
Barium	153	1	1	mg/Kg	11/26/16	11/29/16	KLN
Beryllium	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Cadmium	0.54	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Chromium	53.7	1	1	mg/Kg	11/26/16	11/29/16	KLN
Cobalt	13.9	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Copper	18.1	1	1	mg/Kg	11/26/16	11/29/16	KLN
Lead	7.59	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Molybdenum	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Nickel	69.3	1	1.5	mg/Kg	11/26/16	11/29/16	KLN
Selenium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Silver	ND	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Thallium	ND	1	1	mg/Kg	11/26/16	11/29/16	KLN
Vanadium	39.9	1	0.5	mg/Kg	11/26/16	11/29/16	KLN
Zinc	37.3	1	5	mg/Kg	11/26/16	11/29/16	KLN
Method: EPA 7471A <i>NELAC</i>		Prep Method: EPA 7471A		QCBatchID: QC1172934			
Mercury	ND	1	0.14	mg/Kg	11/29/16	11/29/16	JP

QCBatchID: QC1172831	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/26/2016	Instrument: AAICP (group)

Blank Summary						
Analyte	Blank Result	Units		RDL	Notes	
QC1172831MB1						
Antimony	ND	mg/Kg		3		
Arsenic	ND	mg/Kg		1		
Barium	ND	mg/Kg		1		
Beryllium	ND	mg/Kg		0.5		
Cadmium	ND	mg/Kg		0.5		
Chromium	ND	mg/Kg		1		
Cobalt	ND	mg/Kg		0.5		
Copper	ND	mg/Kg		1		
Lead	ND	mg/Kg		0.5		
Molybdenum	ND	mg/Kg		1		
Nickel	ND	mg/Kg		1.5		
Selenium	ND	mg/Kg		1		
Silver	ND	mg/Kg		0.5		
Thallium	ND	mg/Kg		1		
Vanadium	ND	mg/Kg		0.5		
Zinc	ND	mg/Kg		5		

Lab Control Spike/ Lab Control Spike Duplicate Summary											
Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1172831LCS1											
Antimony	100		91.2		mg/Kg	91			80-120		
Arsenic	100		96.1		mg/Kg	96			80-120		
Barium	100		97.2		mg/Kg	97			80-120		
Beryllium	100		95.4		mg/Kg	95			80-120		
Cadmium	100		95.0		mg/Kg	95			80-120		
Chromium	100		98.8		mg/Kg	99			80-120		
Cobalt	100		100		mg/Kg	100			80-120		
Copper	100		99.4		mg/Kg	99			80-120		
Lead	100		94.9		mg/Kg	95			80-120		
Molybdenum	100		90.2		mg/Kg	90			80-120		
Nickel	100		99.3		mg/Kg	99			80-120		
Selenium	100		93.9		mg/Kg	94			80-120		
Silver	100		89.9		mg/Kg	90			80-120		
Thallium	100		97.0		mg/Kg	97			80-120		
Vanadium	100		98.7		mg/Kg	99			80-120		
Zinc	100		97.5		mg/Kg	98			80-120		

Matrix Spike/Matrix Spike Duplicate Summary												
Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1172831MS1, QC1172831MSD1												Source: 384549-001
Antimony	ND	100	100	27.2	33.7	mg/Kg	27	34	21.3	75-125	20	M,M,D
Arsenic	6.72	100	100	117	134	mg/Kg	110	127	13.5	75-125	20	M
Barium	318	100	100	479	549	mg/Kg	161	231	13.6	75-125	20	M
Beryllium	ND	100	100	105	130	mg/Kg	105	130	21.3	75-125	20	M,D
Cadmium	0.50	100	100	98.1	124	mg/Kg	98	124	23.3	75-125	20	M,D
Chromium	19.8	100	100	121	154	mg/Kg	101	134	24.0	75-125	20	M,D
Cobalt	5.84	100	100	110	132	mg/Kg	104	126	18.2	75-125	20	M
Copper	26.6	100	100	138	166	mg/Kg	111	139	18.4	75-125	20	M
Lead	222	100	100	348	480	mg/Kg	126	258	31.9	75-125	20	M,M,D

QCBatchID: <u>QC1172831</u>	Analyst: dswafford	Method: EPA 6010B
Matrix: Solid	Analyzed: 11/26/2016	Instrument: AAICP (group)

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1172831MS1, QC1172831MSD1											Source: 384549-001	
Molybdenum	0.62	100	100	88.1	107	mg/Kg	87	106	19.4	75-125	20	
Nickel	21.3	100	100	122	158	mg/Kg	101	137	25.7	75-125	20	M,D
Selenium	ND	100	100	90.1	110	mg/Kg	90	110	19.9	75-125	20	
Silver	ND	100	100	94.4	116	mg/Kg	94	116	20.5	75-125	20	M,D
Thallium	ND	100	100	99.0	117	mg/Kg	99	117	16.7	75-125	20	
Vanadium	26.4	100	100	130	164	mg/Kg	104	138	23.1	75-125	20	M,D
Zinc	93.5	100	100	189	253	mg/Kg	96	160	29.0	75-125	20	M,D

QCBatchID: <u>QC1172934</u>	Analyst: JParedes	Method: EPA 7471A
Matrix: Solid	Analyzed: 11/29/2016	Instrument: AAICP-HG1

Blank Summary

Analyte	Blank Result	Units	RDL	Notes
QC1172934MB1				
Mercury	ND	mg/Kg	0.14	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1172934LCS1											
Mercury	0.83		0.80		mg/Kg	96			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1172934MS1, QC1172934MSD1												
Mercury	0.81	0.83	0.83	1.87	1.39	mg/Kg	128	70	29.4	75-125	20	M,M,D

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than DRL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

Curtis & Tompkins, Ltd.
 Analytical Laboratories, Since 1878
 2323 Fifth Street
 Berkeley, CA 94710
 (510) 486-0900
 (510) 486-0532

384549

Project Number: 283234
 Site: 914 W. Grand

Subcontract Laboratory:
 Enthalpy Analytical
 1108 W. Barkley
 Orange, CA 92868
 (714) 771-6900
 ATTN: Winston Yu

Results due: Report Level: II

Please send report to: Will Rice (will.rice@ctberk.com)
 *** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
EB-11 (0-1)	11/10 09:25	Soil	6010-T22 MET	283234-001	
EB-11 (0-1)	11/10 09:25	Soil	6010-T22	283234-001	
EB-11 (0-1)	11/10 09:25	Soil	T22/HG	283234-001	
EB-11 (2-3)	11/10 09:35	Soil	6010-T22 MET	283234-002	
EB-11 (2-3)	11/10 09:35	Soil	6010-T22	283234-002	
EB-11 (2-3)	11/10 09:35	Soil	T22/HG	283234-002	
EB-10 (0-1)	11/10 10:41	Soil	6010-T22 MET	283234-005	
EB-10 (0-1)	11/10 10:41	Soil	6010-T22	283234-005	
EB-10 (0-1)	11/10 10:41	Soil	T22/HG	283234-005	
EB-16 (0-1)	11/10 11:25	Soil	6010-T22 MET	283234-014	
EB-16 (0-1)	11/10 11:25	Soil	6010-T22	283234-014	
EB-16 (0-1)	11/10 11:25	Soil	T22/HG	283234-014	
EB-16 (12-12.5)	11/10 11:50	Soil	6010-T22 MET	283234-018	
EB-16 (12-12.5)	11/10 11:50	Soil	6010-T22	283234-018	
EB-16 (12-12.5)	11/10 11:50	Soil	T22/HG	283234-018	

Notes:	Relinquished By:	Received By:
	<i>Chun Ma</i>	<i>Taylor</i>
	Date/Time: 11/17/16 @ 16:30	Date/Time: 11/16/16 820
	Date/Time:	Date/Time:

Signature on this form constitutes a firm Purchase Order for the services requested above.



SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: o&t Project: 283234

Date Received: 11/18/16 Sampler's Name Present: Yes No

Sample(s) received in a cooler? Yes How many? 1 No (skip section 2) Sample Temp (°C): _____

Sample Temp (°C) from each cooler: #1: 5.2°C #2: _____ #3: _____ #4: _____

(Acceptance range is 0 to 6°C or, for samples collected the same day as sample receipt, arrival on ice; For Microbiology sample 0 to 10°C or, for samples collected the same day as sample receipt, arrival on ice)

Shipping Information: _____

Section 2

Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam

Paper None Other _____

Cooler Temp (°C): #1: 0.1°C #2: _____ #3: _____ #4: _____

Section 3	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were sample IDs present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were sampling dates & times present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was a relinquished signature present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the tests required clearly indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If Yes – were they intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were all samples sealed in plastic bags?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Did all samples arrive intact? If no, indicate below.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were correct containers used for the tests required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was there headspace in VOA vials?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were the containers labeled with correct preservatives?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Section 4

Explanations/Comments: _____

Section 5

For discrepancies, how was the Project Manager notified? Verbal PM Initials: _____ Date/Time _____

Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: Taylor Na Date: 11/18/16



800-322-5555 www.gso.com

Ship From

CURTIS & TOMPKINS
MICHAEL DAHLQUIST
2323 FIFTH STREET
BERKELEY, CA 94710

Tracking #: 534047895

PDS



Ship To

ENTHALPY ANALYTICAL
METALS DEPARTMENT
1108 W. BARKLEY
ORANGE, CA 92868

ORC
ORANGE

D

COD: \$0.00

Weight: 0 lb(s)

Reference:

D92865A



Delivery Instructions:

Signature Type: REQUIRED

59230592

Print Date: 11/17/2016 4:23 PM

Package 1 of 2

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.



Curtis & Tompkins, Ltd.

Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 283797
ANALYTICAL REPORT

Cornerstone Earth Group
1259 Oakmead Pkwy
Sunnyvale, CA 94085

Project : 914-1-3
Location : 914 W. Grand
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
EB-2 (2-3)	283797-001
EB-4 (4.5-5)	283797-002
EB-4 (14.5-15)	283797-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Mikelle Chong
Project Manager
mikelle.chong@ctberk.com

Date: 12/05/2016

CASE NARRATIVE

Laboratory number: 283797
Client: Cornerstone Earth Group
Project: 914-1-3
Location: 914 W. Grand
Request Date: 11/30/16
Samples Received: 11/09/16

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 11/30/16. The samples were received on ice and intact, directly from the field.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

283797-003 was analyzed outside of hold time; affected data was qualified with "b". No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

Low recovery was observed for diesel C10-C24 in the MS for batch 241969; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. 283797-003 was prepared outside of hold time; affected data was qualified with "b". No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

283797-003 was analyzed outside of hold time; affected data was qualified with "b". No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

High surrogate recovery was observed for terphenyl-d14 in EB-2 (2-3) (lab # 283797-001); no target analytes were detected in the sample. High surrogate recovery was observed for nitrobenzene-d5 in the method blank for batch 241896; no target analytes were detected in the sample. 283797-001 was prepared outside of hold time; affected data was qualified with "b". No other analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.

283797

Subject: RE: FINAL REPORT AND EDD 914-1-3 - C&T Data (283192)
From: "Randall R. Bleichner" <rbleichner@cornerstoneearth.com>
Date: 11/30/2016 9:10 AM
To: "will.rice@ctberk.com" <will.rice@ctberk.com>

Will,

We'd like to analyze the following:

EB-3 (2-3) for PAHs
EB-4 (4.5-5) for Lead
EB-4 (14.5-15) TPHd/o and TPHg/VOCs

3-Day turn.

Thanks,

Randall

From: Will Rice [mailto:will.rice@ctberk.com]
Sent: Tuesday, November 29, 2016 5:30 PM
To: Randall R. Bleichner <rbleichner@cornerstoneearth.com>
Subject: FINAL REPORT AND EDD 914-1-3 - C&T Data (283192)

Hi Randall,

Please find attached the following files:

- PDF Deliverable
- Cornerstone Earth Group format EDD (283192_cornerstone.zip)

You may also access this data at <https://labline.ctberk.com/>
Email was also sent to: plangtry@cornerstoneearth.com

C&T sends its e-reports via the Internet as Portable Document Format (PDF) files. Reports in this format, when accompanied by a signed cover page, are considered official reports. **No hardcopy reports will be sent either by fax or U.S. Postal Service unless otherwise requested.** You may distribute your PDF files electronically or as printed hardcopies, as long as they are distributed in their entirety.



283192

Chain of Custody Record

Cornerstone Earth Group, Inc. 1270 Springbrook RD #101 Walnut Creek, CA 94597 (925) 988-9500 Phone (925) 988-9501 FAX Project Name 914 W. Grand Site: Oakland Project Number: 914-1-3		Project Manager: Peter Langtry Tel/Fax:		Site Sampler: Randall/Brent Lab Contact: Will Rice		Date:		COC No: 1 of 6 COCs	
Analysis Turnaround Time		TAT if different from Below _____		CAM 17 Metals (6000/7000) PAHs (8270 SIM) OCPs (8081) PCBs (8082) TPHd/TPHo (8015M) TPHg/VOCs (8280B)		Laboratory's Job No.			
<input checked="" type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Laboratory's Sample Specific Notes:			
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.				
1 EB-1 (0-1)	11/9/16	1350	LNDRZ	SOIL	1	X	X	X	
2 EB-1 (2-3)		1350				X	X		
3 EB-1 (4.5-5)		1352							
4 EB-2 (0-1)		1402				X	X	X	HOLD
5 EB-2 (2-3)		1402				X	X		
6 EB-2 (4.5-5)		1402							HOLD
7 EB-3 (0-1)		1247				X	X	X	
8 EB-3 (2-3)		1247				X	X		
9 EB-3 (4.5-5)		1247							HOLD
10 EB-4 (0-1)		1151				X	X	X	
11 EB-4 (2-3)		1154				X	X		
12 EB-4 (4.5-5)		1151							HOLD
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Special Instructions/QC Requirements & Comments: TPH D/TPH O <u>WITHOUT</u> SILICA GEL CLEAN UP									
Please send reports to Cheiny@cornerstoneearth.com, plangtry@cornerstoneearth.com, and rbleichner@cornerstoneearth.com									
Relinquished by:	Company: Cornerstone Earth Group	Date/Time: 11/9/16	Received by:	Company: CBT	Date/Time: 11/9/16				
Relinquished by:	Company: CBT	Date/Time: 11/9/16	Received by:	Company: CBT	Date/Time: 11/9/16 17:00				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				

283192



Chain of Custody Record

Cornerstone Earth Group, Inc. 1270 Springbrook RD #101 Walnut Creek, CA 94597 (925) 988-9500 Phone (925) 988-9501 FAX Project Name 914 W. Grand Site: Oakland Project Number: 914-1-3		Project Manager: Peter Langtry Tel/Fax:		Site Sampler: Randall/Brent Lab Contact: Will Rice		Date:		COC No: 2 of 6 COCs	
Analysis Turnaround Time		TAT if different from Below _____		<input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		CAM 17 Metals (6000/7000) PAHs (8270 SIM) OCPS (8081) PCBs (8082) TPH/TPHO (8015M) TPHg/VOCs (8260B)		Laboratory's Job No.	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Laboratory's Sample Specific Notes:		
13	EB-4 (6.5-7)	11/9/16	1155	LIND	SOL	1			HOLD
14	EB-4 (14.5-15)		1235			1			HOLD
15	EB-4 (17.5-18)		1235			1			HOLD
16	EB-5 (2-1)		1123			1	XXX	X	
17	EB-5 (2-3)		1123			1	XXX	X	
18	EB-5 (4.5-5)		1123			1			HOLD
19	EB-5 (6.5-7)		1130			1			HOLD
20	EB-9 (0-1)		1520			1			HOLD
21	EB-9 (2-3)		1520			4		XX	
22	EB-9 (4.5-5)		1520			4		XX	
23	EB-9 (9.5-10)		1520			4		XX	
24	EB-9 (13-13.5)		1533			4	XX	XXXX	HOLD
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____ Possible Hazard Identification: <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown Sample Disposal: <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements & Comments: TPH D/TPH O WITHOUT SILICA GEL CLEAN UP Please send reports to Cheiny@cornerstoneearth.com, plangtry@cornerstoneearth.com, and rbleichner@cornerstoneearth.com									
Relinquished by: [Signature]		Company: Cornerstone Earth Group		Date/Time: 11/9/16		Received by: [Signature]		Company: CST	
Relinquished by: [Signature]		Company: CST		Date/Time: 11/9/16 17:00		Received by: [Signature]		Company: CST	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	

Cornerstone Earth Group, Inc. 1270 Springbrook RD #101 Walnut Creek, CA 94597 (925) 988-9500 Phone (925) 988-9501 FAX Project Name 914 W. Grand Site: Oakland Project Number: 914-1-3		Project Manager: Peter Langtry Tel/Fax:		Site Sampler: Randall/Brent Lab Contact: Will Rice		Date: Lab: Curtis and Tompkins		COC No: 3 of 2 COCs Laboratory's Job No.	
Analysis Turnaround Time TAT if different from Below _____ <input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		CAM 17 Metals (8000/7000) PAHs (8270 SIM) OCPS (8081) PCBs (8082) TPH/TPHo (8015M) TPH/VOCs (8280B)							
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.				
25 EB 8 (2-3)	11/9/16	13:50	AWC FLUO	SOI	4				
26 EB 8 (4-5)		13:43			4			X	X
27 EB 8 (9-10)		14:02			4			X	X
28 EB 8 (14-15)		14:12	LI EB		4			X	X
29 EB 13 (0-1)		14:29	LI W2		4				
30 EB 13 (2-3)		14:30	LI W2		4			X	X
31 EB 13 (4-5)		14:35			4			X	X
32 EB 13 (9-10)		14:31			4			X	X
33 EB 13 (11-12)		14:58			4				
34 EB 13 (14-15)		14:49			4				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Special Instructions/QC Requirements & Comments: TPH D/TPH O WITHOUT SILICA GEL CLEAN UP									
Please send reports to Cheiny@cornerstoneearth.com, plangtry@cornerstoneearth.com, and rbleichner@cornerstoneearth.com									
Relinquished by:	Company: Cornerstone Earth Group	Date/Time: 11/9/16 16:30	Received by:	Company: C&T	Date/Time: 11/9/16 16:30				
Relinquished by:	Company: C&T	Date/Time: 11/9/16 17:00	Received by:	Company: C&T	Date/Time: 11/9/16 17:00				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				



283192

Chain of Custody Record

Cornerstone Earth Group, Inc. 1270 Springbrook RD #101 Walnut Creek, CA 94597 (925) 988-9500 Phone (925) 988-9501 FAX Project Name 914 W. Grand Site: Oakland Project Number: 914-1-3		Project Manager: Peter Langtry Tel/Fax:		Site Sampler: Randall/Brent Lab Contact: Will Rice		Date: Lab: Curtis and Tompkins		COC No: 4 of 6 COCs Laboratory's Job No.				
Analysis Turnaround Time TAT if different from Below _____ <input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day												
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	CAM 17 Metals (8000/7000)	PAHs (8270 SIM)	OCPS (8081)	PCBs (8082)	TPH/TPHO (8015M)	TPH/VOCs (8260B)	Laboratory's Sample Specific Notes:
35 EB-9 (14.5-15)	11/9/16	1533	LIQID	SOIL	1							HOLD
36 GW-1 (17.5-18)		1533			1							HOLD
37 GW-1 (2-2.5)		1232			1							HOLD
38 GW-3 (13-13.5)		1502			1				XX			
39 GW-2 (14.5-15)		1440			1							HOLD
40 EB-6 (2-3)		1555	LIQID	SOIL	4				XX			
41 EB-6 (4-5)		1555			4				XX			
42 EB-6 (9-10)		1603			4				XX			
43 EB-6 (14-15)		16:00			4							HOLD
44 EB-17 (0-1)		1050			4	XXXXXX						
45 EB-17 (2-3)		1053			4				XX			
46 EB-17 (4-5)		1055			4				XX			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____						Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						
Special Instructions/QC Requirements & Comments: TPH D/TPH O WITHOUT SILICA GEL CLEAN UP						Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Please send reports to Cheiny@cornerstoneearth.com, plangtry@cornerstoneearth.com, and rblechner@cornerstoneearth.com												
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:							
	Cornerstone Earth Group	11/9/16		C&T	11/9/16 1700							
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:							
	C&T	11/9/16 1700		C&T	11/9/16 1710							
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:							

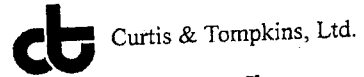


283192

Chain of Custody Record

Cornerstone Earth Group, Inc. 1270 Springbrook RD #101 Walnut Creek, CA 94597 (925) 988-9500 Phone (925) 988-9501 FAX Project Name 914 W. Grand Site: Oakland Project Number: 914-1-3		Project Manager: Peter Langtry Tel/Fax:		Site Sampler: Randall/Brent Lab Contact: Will Rice		Date: _____ Lab: Curtis and Tompkins		COC No: _____ 5 of 6 COCs	
		Analysis Turnaround Time TAT if different from Below _____ <input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Laboratory's Job No. _____	
								Laboratory's Sample Specific Notes: _____	
	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	CAM 17 Metals (8000/7000) PAHs (8270 SIM) OCPs (8081) PCBs (8082) TPHd/TPHo (8015M) TPHg/VOCs (8260B)		
47	EB-14 (2-3)		15:10	LNOR	SAC	4			
48	14 (4-5)		15:17			4			
49	14 (6-7)		15:20			4	XXXXX		
50	14 (9-10)		15:22			4			
51	14 (12-13)		15:35			4			HOLD
52	14 (14-15)		15:38	LNOR		1			HOLD
53									
54	EB-17 (9-10)		1105	LNOR		4		XX	
55	EB-17 (14-15)		1100	LNOR		1			HOLD
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Special Instructions/QC Requirements & Comments: TPH D/TPH O WITHOUT SILICA GEL CLEAN UP									
Please send reports to Cheiny@cornerstoneearth.com, plangtry@cornerstoneearth.com, and rbleichner@cornerstoneearth.com									
Relinquished by:		Company: Cornerstone Earth Group		Date/Time: 11/16/16		Received by:		Company: C&T	
Relinquished by:		Company: C&T		Date/Time: 11/9/16		Received by:		Company: C&T	
Relinquished by: _____		Company: _____		Date/Time: _____		Received by: _____		Company: _____	

COOLER RECEIPT CHECKLIST



Login # 283192 Date Received 11/9/16 Number of coolers 2
 Client Cornerstone Project 914-1-3

Date Opened 11/9 By (print) CB (sign) [Signature]
 Date Logged in ✓ By (print) DTN (sign) [Signature]
 Date Labeled ✓ By (print) CB (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
- Shipping info _____
- 2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____
- 2B. Were custody seals intact upon arrival? _____ YES NO N/A
3. Were custody papers dry and intact when received? _____ YES NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) _____ YES NO
6. Indicate the packing in cooler: (if other, describe) _____
 Bubble Wrap Foam blocks Bags None
 Cloth material Cardboard Styrofoam Paper towels
7. Temperature documentation: * Notify PM if temperature exceeds 6°C
 Type of ice used: Wet Blue/Gel None Temp(°C) _____
 Temperature blank(s) included? Thermometer# _____ IR Gun# _____
 Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present? _____ YES NO
- If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ YES NO
10. Are there any missing / extra samples? _____ YES NO
11. Are samples in the appropriate containers for indicated tests? _____ YES NO
12. Are sample labels present, in good condition and complete? _____ YES NO
13. Do the sample labels agree with custody papers? _____ YES NO
14. Was sufficient amount of sample sent for tests requested? _____ YES NO
15. Are the samples appropriately preserved? _____ YES NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A
17. Did you document your preservative check? (pH strip lot# _____) YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES NO
 If YES, Who was called? _____ By _____ Date: _____

COMMENTS

Detections Summary for 283797

Results for any subcontracted analyses are not included in this summary.

Client : Cornerstone Earth Group
 Project : 914-1-3
 Location : 914 W. Grand

Client Sample ID : EB-2 (2-3) Laboratory Sample ID : 283797-001

No Detections

Client Sample ID : EB-4 (4.5-5) Laboratory Sample ID : 283797-002

No Detections

Client Sample ID : EB-4 (14.5-15) Laboratory Sample ID : 283797-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1.0	Y,b	1.0	mg/Kg	As Recd	1.000	EPA 8015B	EPA 3550B

Y = Sample exhibits chromatographic pattern which does not resemble standard
 b = See narrative

Total Volatile Hydrocarbons			
Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	EB-4 (14.5-15)	Batch#:	241918
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	12/01/16
Diln Fac:	1.000		

Type: SAMPLE Lab ID: 283797-003

Analyte	Result	RL
Gasoline C7-C12	ND b	0.98

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	85 b	78-138

Type: BLANK Lab ID: QC862701

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	87	78-138

b= See narrative
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC862698	Batch#:	241918
Matrix:	Soil	Analyzed:	12/01/16
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.050	105	80-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	78-138

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	283819-001	Batch#:	241918
Matrix:	Soil	Sampled:	11/29/16
Units:	mg/Kg	Received:	11/30/16
Basis:	as received	Analyzed:	12/01/16

Type: MS Lab ID: QC862699

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1246	10.53	9.900	93	50-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	78-138

Type: MSD Lab ID: QC862700

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.64	8.842	82	50-120	12	31

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	78-138

RPD= Relative Percent Difference

Total Extractable Hydrocarbons			
Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	EB-4 (14.5-15)	Batch#:	241969
Matrix:	Soil	Sampled:	11/09/16
Units:	mg/Kg	Received:	11/09/16
Basis:	as received	Prepared:	12/02/16
Diln Fac:	1.000	Analyzed:	12/02/16

Type: SAMPLE Lab ID: 283797-003

Analyte	Result	RL
Diesel C10-C24	1.0 Y b	1.0
Motor Oil C24-C36	ND b	5.0

Surrogate	%REC	Limits
o-Terphenyl	102 b	59-140

Type: BLANK Lab ID: QC862930

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	117	59-140

Y= Sample exhibits chromatographic pattern which does not resemble standard

b= See narrative

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC862931	Batch#:	241969
Matrix:	Soil	Prepared:	12/02/16
Units:	mg/Kg	Analyzed:	12/02/16

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.38	51.71	103	58-137

Surrogate	%REC	Limits
o-Terphenyl	100	59-140

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	241969
MSS Lab ID:	283805-001	Sampled:	11/30/16
Matrix:	Soil	Received:	11/30/16
Units:	mg/Kg	Prepared:	12/02/16
Basis:	as received	Analyzed:	12/02/16
Diln Fac:	1.000		

Type: MS Lab ID: QC862932

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	27.60	50.29	47.61	40 *	46-154

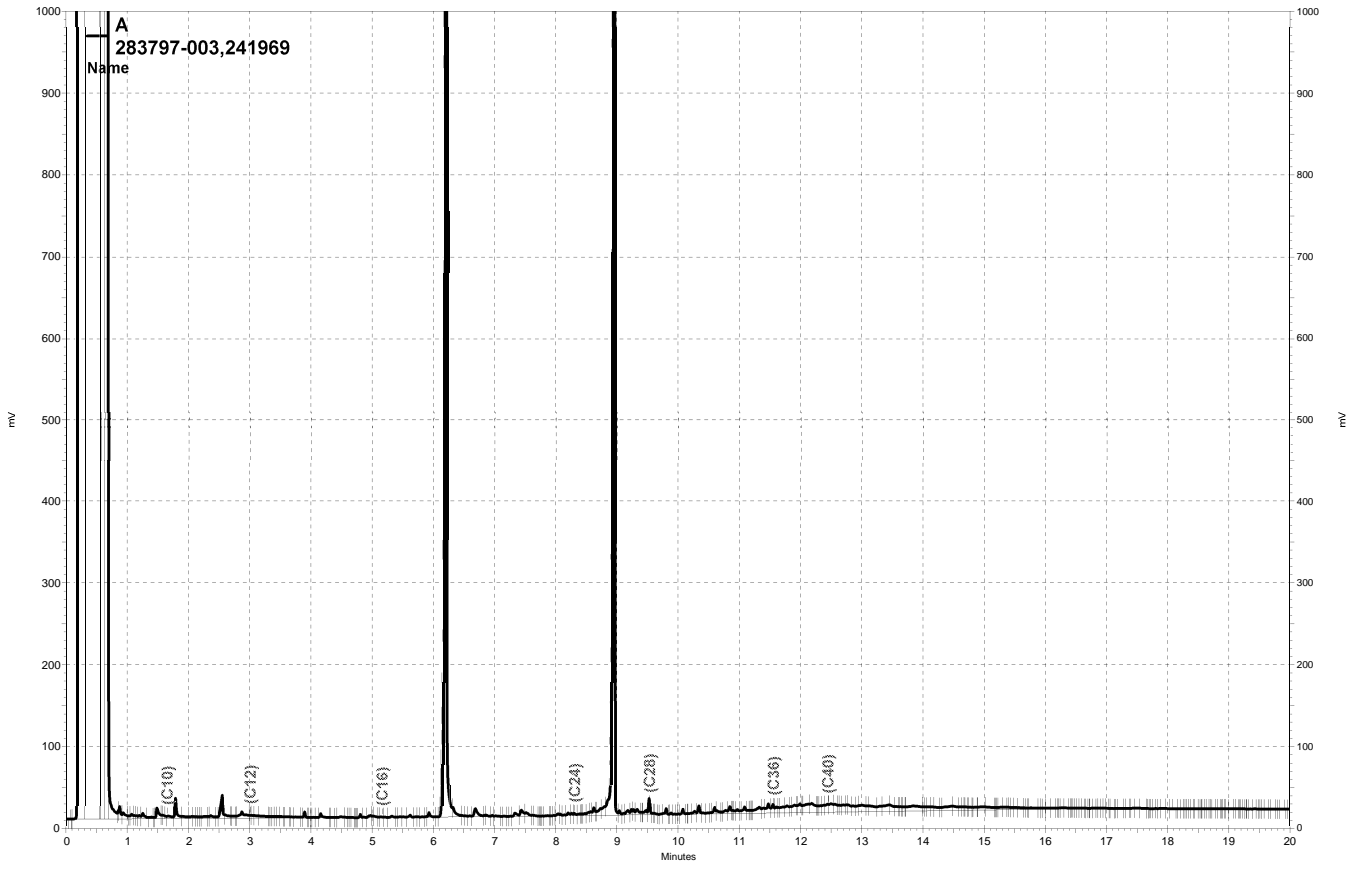
Surrogate	%REC	Limits
o-Terphenyl	98	59-140

Type: MSD Lab ID: QC862933

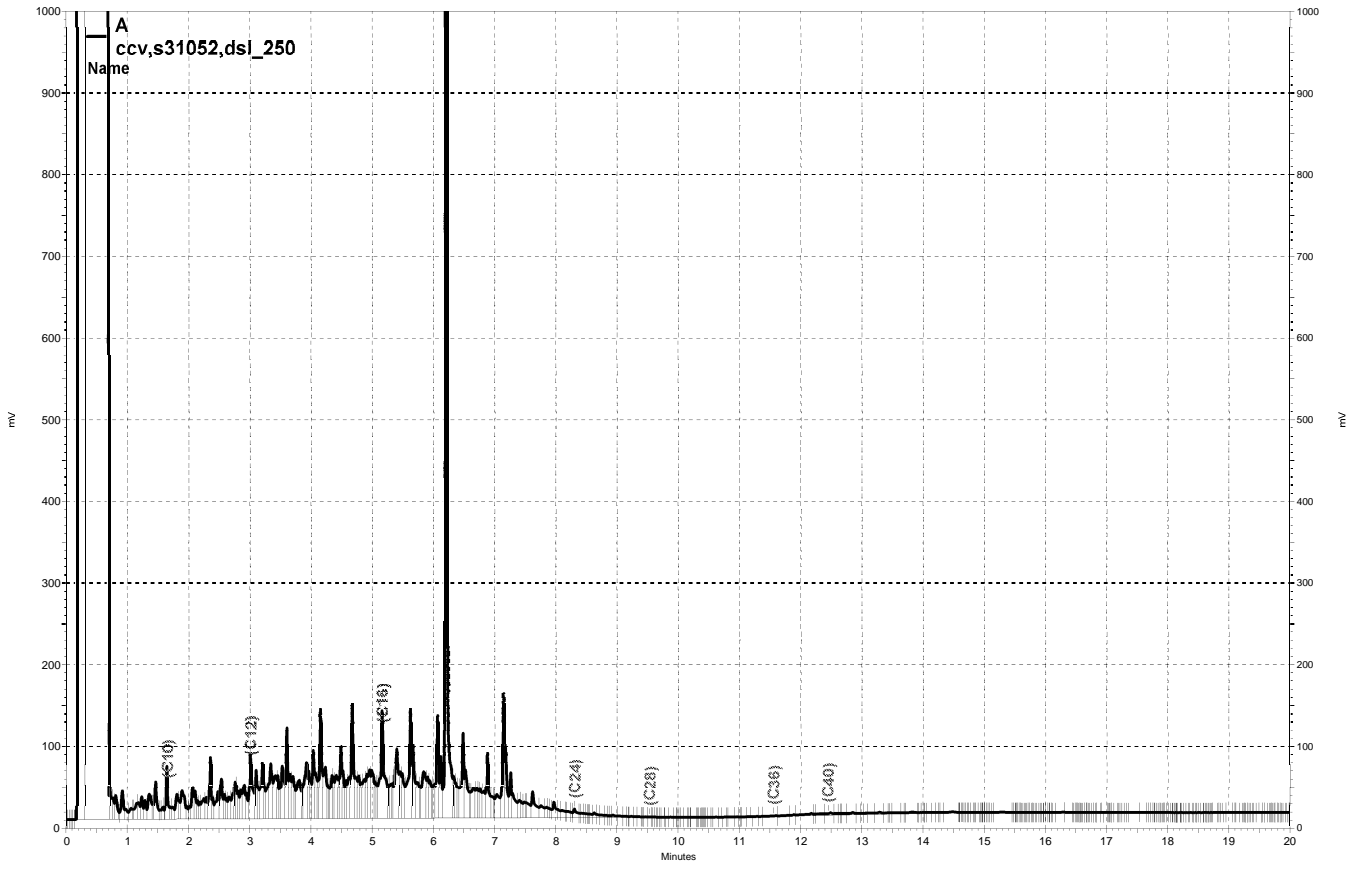
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.36	55.03	54	46-154	14	50

Surrogate	%REC	Limits
o-Terphenyl	106	59-140

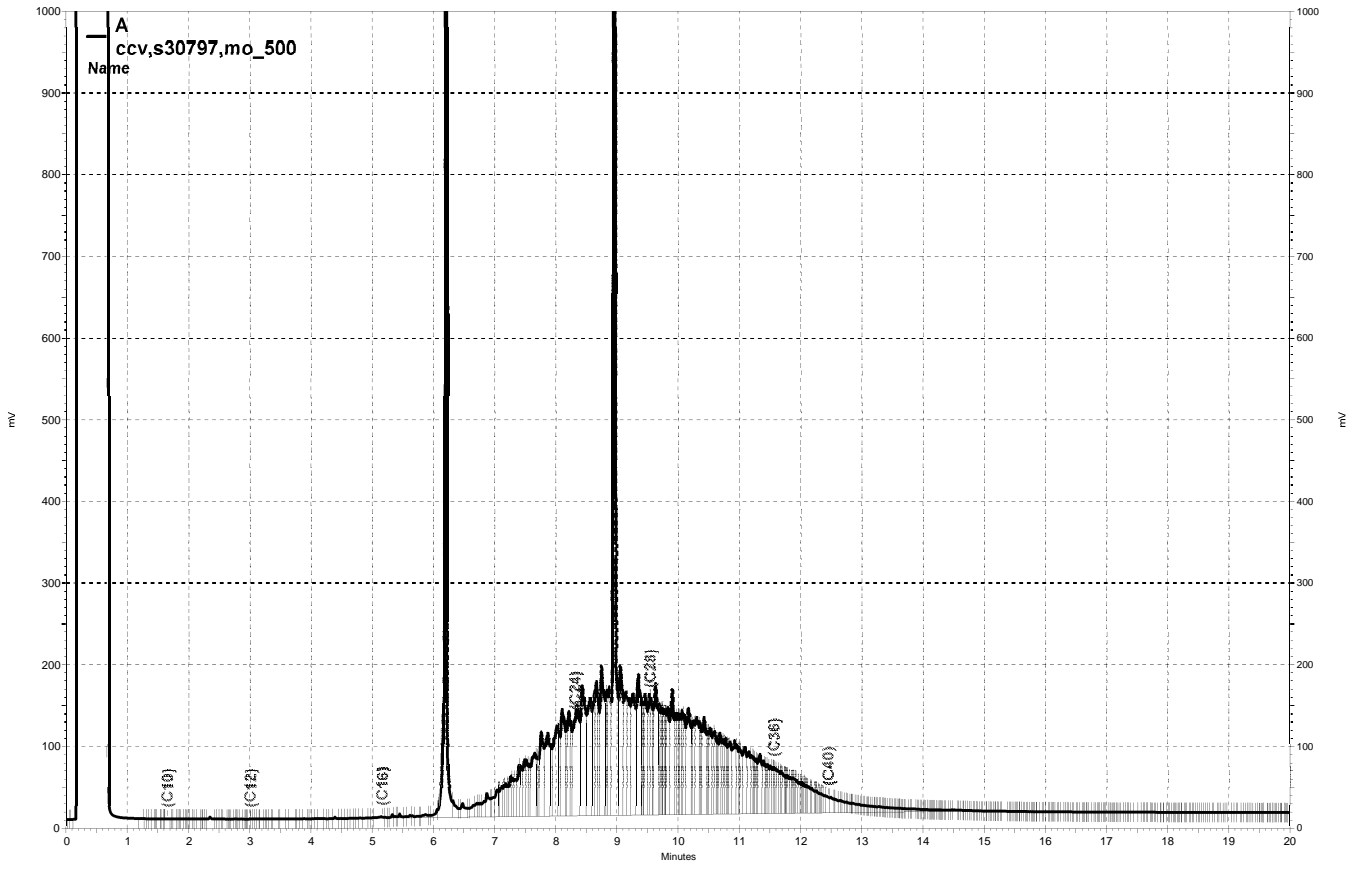
 *= Value outside of QC limits; see narrative
 RPD= Relative Percent Difference



— \\kraken\gdrive\ezchrom\Projects\GC17a\Data\337a024, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\337a014, A



\\kraken\gdrive\ezchrom\Projects\GC17a\Data\337a013, A

Purgeable Organics by GC/MS

Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-4 (14.5-15)	Diln Fac:	0.9191
Lab ID:	283797-003	Batch#:	241908
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	12/01/16

Analyte	Result	RL
Freon 12	ND b	9.2
Chloromethane	ND b	9.2
Vinyl Chloride	ND b	9.2
Bromomethane	ND b	9.2
Chloroethane	ND b	9.2
Trichlorofluoromethane	ND b	4.6
Acetone	ND b	18
Freon 113	ND b	4.6
1,1-Dichloroethene	ND b	4.6
Methylene Chloride	ND b	18
Carbon Disulfide	ND b	4.6
MTBE	ND b	4.6
trans-1,2-Dichloroethene	ND b	4.6
Vinyl Acetate	ND b	46
1,1-Dichloroethane	ND b	4.6
2-Butanone	ND b	9.2
cis-1,2-Dichloroethene	ND b	4.6
2,2-Dichloropropane	ND b	4.6
Chloroform	ND b	4.6
Bromochloromethane	ND b	4.6
1,1,1-Trichloroethane	ND b	4.6
1,1-Dichloropropene	ND b	4.6
Carbon Tetrachloride	ND b	4.6
1,2-Dichloroethane	ND b	4.6
Benzene	ND b	4.6
Trichloroethene	ND b	4.6
1,2-Dichloropropane	ND b	4.6
Bromodichloromethane	ND b	4.6
Dibromomethane	ND b	4.6
4-Methyl-2-Pentanone	ND b	9.2
cis-1,3-Dichloropropene	ND b	4.6
Toluene	ND b	4.6
trans-1,3-Dichloropropene	ND b	4.6
1,1,2-Trichloroethane	ND b	4.6
2-Hexanone	ND b	9.2
1,3-Dichloropropane	ND b	4.6
Tetrachloroethene	ND b	4.6
Dibromochloromethane	ND b	4.6
1,2-Dibromoethane	ND b	4.6
Chlorobenzene	ND b	4.6
1,1,1,2-Tetrachloroethane	ND b	4.6
Ethylbenzene	ND b	4.6
m,p-Xylenes	ND b	4.6
o-Xylene	ND b	4.6
Styrene	ND b	4.6
Bromoform	ND b	4.6
Isopropylbenzene	ND b	4.6
1,1,2,2-Tetrachloroethane	ND b	4.6
1,2,3-Trichloropropane	ND b	4.6
Propylbenzene	ND b	4.6
Bromobenzene	ND b	4.6
1,3,5-Trimethylbenzene	ND b	4.6
2-Chlorotoluene	ND b	4.6

b= See narrative
 ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS			
Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	EB-4 (14.5-15)	Diln Fac:	0.9191
Lab ID:	283797-003	Batch#:	241908
Matrix:	Soil	Sampled:	11/09/16
Units:	ug/Kg	Received:	11/09/16
Basis:	as received	Analyzed:	12/01/16

Analyte	Result	RL
4-Chlorotoluene	ND b	4.6
tert-Butylbenzene	ND b	4.6
1,2,4-Trimethylbenzene	ND b	4.6
sec-Butylbenzene	ND b	4.6
para-Isopropyl Toluene	ND b	4.6
1,3-Dichlorobenzene	ND b	4.6
1,4-Dichlorobenzene	ND b	4.6
n-Butylbenzene	ND b	4.6
1,2-Dichlorobenzene	ND b	4.6
1,2-Dibromo-3-Chloropropane	ND b	4.6
1,2,4-Trichlorobenzene	ND b	4.6
Hexachlorobutadiene	ND b	4.6
Naphthalene	ND b	4.6
1,2,3-Trichlorobenzene	ND b	4.6

Surrogate	%REC	Limits
Dibromofluoromethane	98 b	78-134
1,2-Dichloroethane-d4	110 b	80-138
Toluene-d8	104 b	80-120
Bromofluorobenzene	104 b	78-123

b= See narrative
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC862664	Batch#:	241908
Matrix:	Soil	Analyzed:	12/01/16
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC862664	Batch#:	241908
Matrix:	Soil	Analyzed:	12/01/16
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	99	78-134
1,2-Dichloroethane-d4	109	80-138
Toluene-d8	106	80-120
Bromofluorobenzene	106	78-123

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 5030B
Project#:	914-1-3	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	241908
MSS Lab ID:	283828-003	Sampled:	11/30/16
Matrix:	Soil	Received:	11/30/16
Units:	ug/Kg	Analyzed:	12/01/16
Basis:	as received		

Type: MS Diln Fac: 0.9709
 Lab ID: QC862719

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5892	48.54	37.11	76	56-133
Benzene	<0.6865	48.54	41.57	86	57-120
Trichloroethene	1.162	48.54	38.74	77	49-145
Toluene	<0.7520	48.54	38.46	79	51-120
Chlorobenzene	<0.6165	48.54	33.82	70	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	78-134
1,2-Dichloroethane-d4	113	80-138
Toluene-d8	105	80-120
Bromofluorobenzene	97	78-123

Type: MSD Diln Fac: 0.9747
 Lab ID: QC862720

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	48.73	41.55	85	56-133	11	46
Benzene	48.73	46.24	95	57-120	10	44
Trichloroethene	48.73	44.31	89	49-145	13	46
Toluene	48.73	43.08	88	51-120	11	47
Chlorobenzene	48.73	38.39	79	47-120	12	50

Surrogate	%REC	Limits
Dibromofluoromethane	97	78-134
1,2-Dichloroethane-d4	115	80-138
Toluene-d8	104	80-120
Bromofluorobenzene	79	78-123

RPD= Relative Percent Difference

Semivolatile Organics by GC/MS SIM

Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	EB-2 (2-3)	Batch#:	241896
Lab ID:	283797-001	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	ug/Kg	Prepared:	12/01/16
Basis:	as received	Analyzed:	12/01/16
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Naphthalene	ND b	5.0	1.0
Acenaphthylene	ND b	5.0	1.0
Acenaphthene	ND b	5.0	1.0
Fluorene	ND b	5.0	1.0
Phenanthrene	ND b	5.0	1.0
Anthracene	ND b	5.0	1.0
Fluoranthene	ND b	5.0	1.0
Pyrene	ND b	5.0	1.0
Benzo(a)anthracene	ND b	5.0	1.0
Chrysene	ND b	5.0	1.0
Benzo(b)fluoranthene	ND b	5.0	1.0
Benzo(k)fluoranthene	ND b	5.0	1.0
Benzo(a)pyrene	ND b	5.0	1.0
Indeno(1,2,3-cd)pyrene	ND b	5.0	1.0
Dibenz(a,h)anthracene	ND b	5.0	1.0
Benzo(g,h,i)perylene	ND b	5.0	1.2

Surrogate	%REC	Limits
Nitrobenzene-d5	93 b	40-120
2-Fluorobiphenyl	100 b	46-120
Terphenyl-d14	139 * b	43-120

*= Value outside of QC limits; see narrative

b= See narrative

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Batch QC Report
Semivolatile Organics by GC/MS SIM

Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC862617	Batch#:	241896
Matrix:	Soil	Prepared:	11/30/16
Units:	ug/Kg	Analyzed:	12/01/16

Analyte	Result	RL	MDL
Naphthalene	ND	5.0	1.2
Acenaphthylene	ND	5.0	1.0
Acenaphthene	ND	5.0	1.0
Fluorene	ND	5.0	1.0
Phenanthrene	ND	5.0	1.0
Anthracene	ND	5.0	1.0
Fluoranthene	ND	5.0	1.0
Pyrene	ND	5.0	1.0
Benzo(a)anthracene	ND	5.0	1.0
Chrysene	ND	5.0	1.0
Benzo(b)fluoranthene	ND	5.0	1.0
Benzo(k)fluoranthene	ND	5.0	1.0
Benzo(a)pyrene	ND	5.0	1.0
Indeno(1,2,3-cd)pyrene	ND	5.0	1.0
Dibenz(a,h)anthracene	ND	5.0	1.0
Benzo(g,h,i)perylene	ND	5.0	1.0

Surrogate	%REC	Limits
Nitrobenzene-d5	158 *	40-120
2-Fluorobiphenyl	83	46-120
Terphenyl-d14	92	43-120

*= Value outside of QC limits; see narrative

ND= Not Detected at or above MDL

RL= Reporting Limit

MDL= Method Detection Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC862618	Batch#:	241896
Matrix:	Soil	Prepared:	11/30/16
Units:	ug/Kg	Analyzed:	12/01/16

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.52	27.37	82	49-120
Pyrene	33.52	38.42	115	48-120

Surrogate	%REC	Limits
Nitrobenzene-d5	80	40-120
2-Fluorobiphenyl	87	46-120
Terphenyl-d14	114	43-120

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3550B
Project#:	914-1-3	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	241896
MSS Lab ID:	283516-018	Sampled:	11/17/16
Matrix:	Soil	Received:	11/17/16
Units:	ug/Kg	Prepared:	11/30/16
Basis:	as received	Analyzed:	12/01/16
Diln Fac:	5.000		

Type: MS Lab ID: QC862619

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<4.964	33.33	31.45	94	43-120
Pyrene	180.1	33.33	157.0	-69 NM	18-144

Surrogate	%REC	Limits
Nitrobenzene-d5	66	40-120
2-Fluorobiphenyl	71	46-120
Terphenyl-d14	92	43-120

Type: MSD Lab ID: QC862620

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	33.40	31.25	94	43-120	1	45
Pyrene	33.40	132.3	-143 NM	18-144	17	72

Surrogate	%REC	Limits
Nitrobenzene-d5	83	40-120
2-Fluorobiphenyl	88	46-120
Terphenyl-d14	110	43-120

NM= Not Meaningful: Sample concentration > 4X spike concentration

RPD= Relative Percent Difference

Lead			
Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3050B
Project#:	914-1-3	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	241880
Field ID:	EB-4 (4.5-5)	Sampled:	11/09/16
Matrix:	Soil	Received:	11/09/16
Units:	mg/Kg	Prepared:	11/30/16
Basis:	as received	Analyzed:	11/30/16
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	283797-002	ND	9.7
BLANK	QC862550	ND	10

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Lead			
Lab #:	283797	Location:	914 W. Grand
Client:	Cornerstone Earth Group	Prep:	EPA 3050B
Project#:	914-1-3	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	241880
MSS Lab ID:	283553-001	Sampled:	11/17/16
Matrix:	Soil	Received:	11/18/16
Units:	mg/Kg	Prepared:	11/30/16
Basis:	as received	Analyzed:	11/30/16

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC862551		52.63	53.10	101	80-120		
BSD	QC862552		48.54	50.21	103	80-120	2	20
MS	QC862553	7.938	54.95	61.21	97	53-125		
MSD	QC862554		47.62	55.71	100	53-125	3	42

RPD= Relative Percent Difference

11/18/2016
Mr. Chris Heiny
Cornerstone Earth Group
1270 Springbrook Rd.
Suite 101
Walnut Creek CA 94597

Project Name: 914 W Grand Ave Oakland
Project #:
Workorder #: 1611197A

Dear Mr. Chris Heiny

The following report includes the data for the above referenced project for sample(s) received on 11/11/2016 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Rachel Selenis at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Rachel Selenis
Project Manager

WORK ORDER #: 1611197A

Work Order Summary

CLIENT:	Mr. Chris Heiny Cornerstone Earth Group 1270 Springbrook Rd. Suite 101 Walnut Creek, CA 94597	BILL TO:	Accounts Payable Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, CA 94085
PHONE:	925-988-9500	P.O. #	
FAX:		PROJECT #	914 W Grand Ave Oakland
DATE RECEIVED:	11/11/2016	CONTACT:	Rachel Selenis
DATE COMPLETED:	11/18/2016		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SV-4	TO-15	4.5 "Hg	15 psi
02A	SV-3	TO-15	4.5 "Hg	15 psi
03A	SV-2	TO-15	4.5 "Hg	15 psi
04A	SV-1	TO-15	5.5 "Hg	15 psi
05A	Lab Blank	TO-15	NA	NA
06A	CCV	TO-15	NA	NA
07A	LCS	TO-15	NA	NA
07AA	LCSD	TO-15	NA	NA

CERTIFIED BY: 
 Technical Director

DATE: 11/18/16

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE
EPA Method TO-15
Cornerstone Earth Group
Workorder# 1611197A**

Four 1 Liter Summa Canister samples were received on November 11, 2016. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples SV-4 and SV-1 due to the presence of high level target species.

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-4

Lab ID#: 1611197A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	2400	2900	4500	5400
Hexane	600	3200	2100	11000
2,2,4-Trimethylpentane	600	170000	2800	810000
Heptane	600	2400	2400	10000
4-Methyl-2-pentanone	600	1200	2400	5100
Toluene	600	700	2200	2600
TPH ref. to Gasoline (MW=100)	60000	1300000	240000	5300000

Client Sample ID: SV-3

Lab ID#: 1611197A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	1.2	4.9	5.6	23
TPH ref. to Gasoline (MW=100)	120	150	490	610

Client Sample ID: SV-2

Lab ID#: 1611197A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.2	17	2.6	38
Acetone	12	16	28	38
Hexane	1.2	3.8	4.2	14
Cyclohexane	1.2	2.6	4.1	9.0
Benzene	1.2	7.3	3.8	23
Heptane	1.2	1.7	4.9	7.1
Toluene	1.2	5.3	4.5	20
Tetrachloroethene	1.2	5.6	8.1	38
m,p-Xylene	1.2	2.3	5.2	10
TPH ref. to Gasoline (MW=100)	120	1400	490	5700

Client Sample ID: SV-1

Lab ID#: 1611197A-04A

**Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN**

Client Sample ID: SV-1

Lab ID#: 1611197A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1500	4100	5400	14000
2,2,4-Trimethylpentane	1500	1400000 E	7200	6600000 E
TPH ref. to Gasoline (MW=100)	150000	7300000	630000	30000000



Air Toxics

Client Sample ID: SV-4

Lab ID#: 1611197A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111729	Date of Collection:	11/10/16 10:56:00 A
Dil. Factor:	1190	Date of Analysis:	11/18/16 02:27 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	600	Not Detected	2900	Not Detected
Freon 114	600	Not Detected	4200	Not Detected
Chloromethane	6000	Not Detected	12000	Not Detected
Vinyl Chloride	600	Not Detected	1500	Not Detected
1,3-Butadiene	600	Not Detected	1300	Not Detected
Bromomethane	6000	Not Detected	23000	Not Detected
Chloroethane	2400	Not Detected	6300	Not Detected
Freon 11	600	Not Detected	3300	Not Detected
Ethanol	2400	2900	4500	5400
Freon 113	600	Not Detected	4600	Not Detected
1,1-Dichloroethene	600	Not Detected	2400	Not Detected
Acetone	6000	Not Detected	14000	Not Detected
2-Propanol	2400	Not Detected	5800	Not Detected
Carbon Disulfide	2400	Not Detected	7400	Not Detected
3-Chloropropene	2400	Not Detected	7400	Not Detected
Methylene Chloride	6000	Not Detected	21000	Not Detected
Methyl tert-butyl ether	2400	Not Detected	8600	Not Detected
trans-1,2-Dichloroethene	600	Not Detected	2400	Not Detected
Hexane	600	3200	2100	11000
1,1-Dichloroethane	600	Not Detected	2400	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2400	Not Detected	7000	Not Detected
cis-1,2-Dichloroethene	600	Not Detected	2400	Not Detected
Tetrahydrofuran	600	Not Detected	1800	Not Detected
Chloroform	600	Not Detected	2900	Not Detected
1,1,1-Trichloroethane	600	Not Detected	3200	Not Detected
Cyclohexane	600	Not Detected	2000	Not Detected
Carbon Tetrachloride	600	Not Detected	3700	Not Detected
2,2,4-Trimethylpentane	600	170000	2800	810000
Benzene	600	Not Detected	1900	Not Detected
1,2-Dichloroethane	600	Not Detected	2400	Not Detected
Heptane	600	2400	2400	10000
Trichloroethene	600	Not Detected	3200	Not Detected
1,2-Dichloropropane	600	Not Detected	2700	Not Detected
1,4-Dioxane	2400	Not Detected	8600	Not Detected
Bromodichloromethane	600	Not Detected	4000	Not Detected
cis-1,3-Dichloropropene	600	Not Detected	2700	Not Detected
4-Methyl-2-pentanone	600	1200	2400	5100
Toluene	600	700	2200	2600
trans-1,3-Dichloropropene	600	Not Detected	2700	Not Detected
1,1,2-Trichloroethane	600	Not Detected	3200	Not Detected
Tetrachloroethene	600	Not Detected	4000	Not Detected
2-Hexanone	2400	Not Detected	9700	Not Detected



Client Sample ID: SV-4

Lab ID#: 1611197A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111729	Date of Collection:	11/10/16 10:56:00 A
Dil. Factor:	1190	Date of Analysis:	11/18/16 02:27 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	600	Not Detected	5100	Not Detected
1,2-Dibromoethane (EDB)	600	Not Detected	4600	Not Detected
Chlorobenzene	600	Not Detected	2700	Not Detected
Ethyl Benzene	600	Not Detected	2600	Not Detected
m,p-Xylene	600	Not Detected	2600	Not Detected
o-Xylene	600	Not Detected	2600	Not Detected
Styrene	600	Not Detected	2500	Not Detected
Bromoform	600	Not Detected	6200	Not Detected
Cumene	600	Not Detected	2900	Not Detected
1,1,2,2-Tetrachloroethane	600	Not Detected	4100	Not Detected
Propylbenzene	600	Not Detected	2900	Not Detected
4-Ethyltoluene	600	Not Detected	2900	Not Detected
1,3,5-Trimethylbenzene	600	Not Detected	2900	Not Detected
1,2,4-Trimethylbenzene	600	Not Detected	2900	Not Detected
1,3-Dichlorobenzene	600	Not Detected	3600	Not Detected
1,4-Dichlorobenzene	600	Not Detected	3600	Not Detected
alpha-Chlorotoluene	600	Not Detected	3100	Not Detected
1,2-Dichlorobenzene	600	Not Detected	3600	Not Detected
1,2,4-Trichlorobenzene	2400	Not Detected	18000	Not Detected
Hexachlorobutadiene	2400	Not Detected	25000	Not Detected
TPH ref. to Gasoline (MW=100)	60000	1300000	240000	5300000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: SV-3

Lab ID#: 1611197A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111724	Date of Collection:	11/10/16 11:52:00 A
Dil. Factor:	2.38	Date of Analysis:	11/18/16 12:21 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Ethanol	4.8	Not Detected	9.0	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
2,2,4-Trimethylpentane	1.2	4.9	5.6	23
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
2-Hexanone	4.8	Not Detected	19	Not Detected



Client Sample ID: SV-3

Lab ID#: 1611197A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111724	Date of Collection:	11/10/16 11:52:00 A
Dil. Factor:	2.38	Date of Analysis:	11/18/16 12:21 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
TPH ref. to Gasoline (MW=100)	120	150	490	610

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	93	70-130



Air Toxics

Client Sample ID: SV-2

Lab ID#: 1611197A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111725	Date of Collection:	11/10/16 12:44:00 P
Dil. Factor:	2.38	Date of Analysis:	11/18/16 12:47 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	17	2.6	38
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Ethanol	4.8	Not Detected	9.0	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	16	28	38
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	3.8	4.2	14
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	2.6	4.1	9.0
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	7.3	3.8	23
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	1.7	4.9	7.1
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	5.3	4.5	20
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	5.6	8.1	38
2-Hexanone	4.8	Not Detected	19	Not Detected



Client Sample ID: SV-2

Lab ID#: 1611197A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111725	Date of Collection:	11/10/16 12:44:00 P
Dil. Factor:	2.38	Date of Analysis:	11/18/16 12:47 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	2.3	5.2	10
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
TPH ref. to Gasoline (MW=100)	120	1400	490	5700

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	95	70-130



Air Toxics

Client Sample ID: SV-1

Lab ID#: 1611197A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111730	Date of Collection:	11/10/16 1:37:00 PM
Dil. Factor:	3090	Date of Analysis:	11/18/16 02:51 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1500	Not Detected	7600	Not Detected
Freon 114	1500	Not Detected	11000	Not Detected
Chloromethane	15000	Not Detected	32000	Not Detected
Vinyl Chloride	1500	Not Detected	3900	Not Detected
1,3-Butadiene	1500	Not Detected	3400	Not Detected
Bromomethane	15000	Not Detected	60000	Not Detected
Chloroethane	6200	Not Detected	16000	Not Detected
Freon 11	1500	Not Detected	8700	Not Detected
Ethanol	6200	Not Detected	12000	Not Detected
Freon 113	1500	Not Detected	12000	Not Detected
1,1-Dichloroethene	1500	Not Detected	6100	Not Detected
Acetone	15000	Not Detected	37000	Not Detected
2-Propanol	6200	Not Detected	15000	Not Detected
Carbon Disulfide	6200	Not Detected	19000	Not Detected
3-Chloropropene	6200	Not Detected	19000	Not Detected
Methylene Chloride	15000	Not Detected	54000	Not Detected
Methyl tert-butyl ether	6200	Not Detected	22000	Not Detected
trans-1,2-Dichloroethene	1500	Not Detected	6100	Not Detected
Hexane	1500	4100	5400	14000
1,1-Dichloroethane	1500	Not Detected	6200	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6200	Not Detected	18000	Not Detected
cis-1,2-Dichloroethene	1500	Not Detected	6100	Not Detected
Tetrahydrofuran	1500	Not Detected	4600	Not Detected
Chloroform	1500	Not Detected	7500	Not Detected
1,1,1-Trichloroethane	1500	Not Detected	8400	Not Detected
Cyclohexane	1500	Not Detected	5300	Not Detected
Carbon Tetrachloride	1500	Not Detected	9700	Not Detected
2,2,4-Trimethylpentane	1500	1400000 E	7200	6600000 E
Benzene	1500	Not Detected	4900	Not Detected
1,2-Dichloroethane	1500	Not Detected	6200	Not Detected
Heptane	1500	Not Detected	6300	Not Detected
Trichloroethene	1500	Not Detected	8300	Not Detected
1,2-Dichloropropane	1500	Not Detected	7100	Not Detected
1,4-Dioxane	6200	Not Detected	22000	Not Detected
Bromodichloromethane	1500	Not Detected	10000	Not Detected
cis-1,3-Dichloropropene	1500	Not Detected	7000	Not Detected
4-Methyl-2-pentanone	1500	Not Detected	6300	Not Detected
Toluene	1500	Not Detected	5800	Not Detected
trans-1,3-Dichloropropene	1500	Not Detected	7000	Not Detected
1,1,2-Trichloroethane	1500	Not Detected	8400	Not Detected
Tetrachloroethene	1500	Not Detected	10000	Not Detected
2-Hexanone	6200	Not Detected	25000	Not Detected



Client Sample ID: SV-1

Lab ID#: 1611197A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111730	Date of Collection:	11/10/16 1:37:00 PM
Dil. Factor:	3090	Date of Analysis:	11/18/16 02:51 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1500	Not Detected	13000	Not Detected
1,2-Dibromoethane (EDB)	1500	Not Detected	12000	Not Detected
Chlorobenzene	1500	Not Detected	7100	Not Detected
Ethyl Benzene	1500	Not Detected	6700	Not Detected
m,p-Xylene	1500	Not Detected	6700	Not Detected
o-Xylene	1500	Not Detected	6700	Not Detected
Styrene	1500	Not Detected	6600	Not Detected
Bromoform	1500	Not Detected	16000	Not Detected
Cumene	1500	Not Detected	7600	Not Detected
1,1,2,2-Tetrachloroethane	1500	Not Detected	11000	Not Detected
Propylbenzene	1500	Not Detected	7600	Not Detected
4-Ethyltoluene	1500	Not Detected	7600	Not Detected
1,3,5-Trimethylbenzene	1500	Not Detected	7600	Not Detected
1,2,4-Trimethylbenzene	1500	Not Detected	7600	Not Detected
1,3-Dichlorobenzene	1500	Not Detected	9300	Not Detected
1,4-Dichlorobenzene	1500	Not Detected	9300	Not Detected
alpha-Chlorotoluene	1500	Not Detected	8000	Not Detected
1,2-Dichlorobenzene	1500	Not Detected	9300	Not Detected
1,2,4-Trichlorobenzene	6200	Not Detected	46000	Not Detected
Hexachlorobutadiene	6200	Not Detected	66000	Not Detected
TPH ref. to Gasoline (MW=100)	150000	7300000	630000	30000000

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1611197A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111708	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/17/16 01:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1611197A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111708	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/17/16 01:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	91	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1611197A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111702	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/17/16 10:32 AM

Compound	%Recovery
Freon 12	96
Freon 114	101
Chloromethane	93
Vinyl Chloride	92
1,3-Butadiene	84
Bromomethane	99
Chloroethane	87
Freon 11	95
Ethanol	74
Freon 113	95
1,1-Dichloroethene	87
Acetone	88
2-Propanol	74
Carbon Disulfide	87
3-Chloropropene	82
Methylene Chloride	94
Methyl tert-butyl ether	79
trans-1,2-Dichloroethene	97
Hexane	84
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	92
cis-1,2-Dichloroethene	93
Tetrahydrofuran	87
Chloroform	96
1,1,1-Trichloroethane	93
Cyclohexane	88
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	92
Benzene	107
1,2-Dichloroethane	100
Heptane	100
Trichloroethene	122
1,2-Dichloropropane	104
1,4-Dioxane	96
Bromodichloromethane	105
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	81
Toluene	100
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	108
Tetrachloroethene	105
2-Hexanone	91



Air Toxics

Client Sample ID: CCV

Lab ID#: 1611197A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111702	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/17/16 10:32 AM

Compound	%Recovery
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	104
Chlorobenzene	103
Ethyl Benzene	98
m,p-Xylene	100
o-Xylene	97
Styrene	100
Bromoform	103
Cumene	98
1,1,2,2-Tetrachloroethane	106
Propylbenzene	98
4-Ethyltoluene	99
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	115
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	95	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1611197A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/17/16 10:57 AM

Compound	%Recovery	Method Limits
Freon 12	99	70-130
Freon 114	104	70-130
Chloromethane	92	70-130
Vinyl Chloride	100	70-130
1,3-Butadiene	89	70-130
Bromomethane	103	70-130
Chloroethane	94	70-130
Freon 11	101	70-130
Ethanol	72	70-130
Freon 113	98	70-130
1,1-Dichloroethene	91	70-130
Acetone	87	70-130
2-Propanol	84	70-130
Carbon Disulfide	89	70-130
3-Chloropropene	88	70-130
Methylene Chloride	95	70-130
Methyl tert-butyl ether	83	70-130
trans-1,2-Dichloroethene	102	70-130
Hexane	89	70-130
1,1-Dichloroethane	98	70-130
2-Butanone (Methyl Ethyl Ketone)	98	70-130
cis-1,2-Dichloroethene	93	70-130
Tetrahydrofuran	92	70-130
Chloroform	99	70-130
1,1,1-Trichloroethane	98	70-130
Cyclohexane	95	70-130
Carbon Tetrachloride	103	70-130
2,2,4-Trimethylpentane	99	70-130
Benzene	111	70-130
1,2-Dichloroethane	104	70-130
Heptane	105	70-130
Trichloroethene	125	70-130
1,2-Dichloropropane	110	70-130
1,4-Dioxane	110	70-130
Bromodichloromethane	110	70-130
cis-1,3-Dichloropropene	104	70-130
4-Methyl-2-pentanone	93	70-130
Toluene	107	70-130
trans-1,3-Dichloropropene	102	70-130
1,1,2-Trichloroethane	112	70-130
Tetrachloroethene	109	70-130
2-Hexanone	108	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1611197A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/17/16 10:57 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	114	70-130
1,2-Dibromoethane (EDB)	109	70-130
Chlorobenzene	109	70-130
Ethyl Benzene	108	70-130
m,p-Xylene	106	70-130
o-Xylene	109	70-130
Styrene	116	70-130
Bromoform	114	70-130
Cumene	108	70-130
1,1,2,2-Tetrachloroethane	114	70-130
Propylbenzene	110	70-130
4-Ethyltoluene	111	70-130
1,3,5-Trimethylbenzene	113	70-130
1,2,4-Trimethylbenzene	108	70-130
1,3-Dichlorobenzene	112	70-130
1,4-Dichlorobenzene	116	70-130
alpha-Chlorotoluene	122	70-130
1,2-Dichlorobenzene	113	70-130
1,2,4-Trichlorobenzene	119	70-130
Hexachlorobutadiene	122	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1611197A-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111704	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/17/16 11:21 AM

Compound	%Recovery	Method Limits
Freon 12	100	70-130
Freon 114	105	70-130
Chloromethane	95	70-130
Vinyl Chloride	100	70-130
1,3-Butadiene	90	70-130
Bromomethane	106	70-130
Chloroethane	93	70-130
Freon 11	100	70-130
Ethanol	71	70-130
Freon 113	100	70-130
1,1-Dichloroethene	92	70-130
Acetone	88	70-130
2-Propanol	85	70-130
Carbon Disulfide	90	70-130
3-Chloropropene	90	70-130
Methylene Chloride	98	70-130
Methyl tert-butyl ether	86	70-130
trans-1,2-Dichloroethene	104	70-130
Hexane	91	70-130
1,1-Dichloroethane	97	70-130
2-Butanone (Methyl Ethyl Ketone)	98	70-130
cis-1,2-Dichloroethene	94	70-130
Tetrahydrofuran	94	70-130
Chloroform	100	70-130
1,1,1-Trichloroethane	101	70-130
Cyclohexane	97	70-130
Carbon Tetrachloride	105	70-130
2,2,4-Trimethylpentane	102	70-130
Benzene	111	70-130
1,2-Dichloroethane	104	70-130
Heptane	103	70-130
Trichloroethene	125	70-130
1,2-Dichloropropane	110	70-130
1,4-Dioxane	104	70-130
Bromodichloromethane	110	70-130
cis-1,3-Dichloropropene	100	70-130
4-Methyl-2-pentanone	88	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	98	70-130
1,1,2-Trichloroethane	109	70-130
Tetrachloroethene	107	70-130
2-Hexanone	104	70-130

Client Sample ID: LCSD

Lab ID#: 1611197A-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3111704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/17/16 11:21 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	110	70-130
1,2-Dibromoethane (EDB)	105	70-130
Chlorobenzene	107	70-130
Ethyl Benzene	106	70-130
m,p-Xylene	109	70-130
o-Xylene	110	70-130
Styrene	118	70-130
Bromoform	116	70-130
Cumene	109	70-130
1,1,2,2-Tetrachloroethane	116	70-130
Propylbenzene	111	70-130
4-Ethyltoluene	111	70-130
1,3,5-Trimethylbenzene	116	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	114	70-130
1,4-Dichlorobenzene	116	70-130
alpha-Chlorotoluene	124	70-130
1,2-Dichlorobenzene	114	70-130
1,2,4-Trichlorobenzene	123	70-130
Hexachlorobutadiene	124	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	102	70-130

11/23/2016

Mr. Chris Heiny
Cornerstone Earth Group
1270 Springbrook Rd.
Suite 101
Walnut Creek CA 94597

Project Name: 914 W Grand Ave Oakland
Project #:
Workorder #: 1611197BR1

Dear Mr. Chris Heiny

The following report includes the data for the above referenced project for sample(s) received on 11/11/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Rachel Selenis at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Rachel Selenis
Project Manager

WORK ORDER #: 1611197BR1

Work Order Summary

CLIENT:	Mr. Chris Heiny Cornerstone Earth Group 1270 Springbrook Rd. Suite 101 Walnut Creek, CA 94597	BILL TO:	Accounts Payable Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, CA 94085
PHONE:	925-988-9500	P.O. #	
FAX:		PROJECT #	914 W Grand Ave Oakland
DATE RECEIVED:	11/11/2016	CONTACT:	Rachel Selenis
DATE COMPLETED:	11/18/2016		
DATE REISSUED:	11/23/2016		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SV-4	Modified ASTM D-1946	4.5 "Hg	15 psi
02A	SV-3	Modified ASTM D-1946	4.5 "Hg	15 psi
03A	SV-2	Modified ASTM D-1946	4.5 "Hg	15 psi
04A	SV-1	Modified ASTM D-1946	5.5 "Hg	15 psi
05A	Lab Blank	Modified ASTM D-1946	NA	NA
06A	LCS	Modified ASTM D-1946	NA	NA
06AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: 

 Technical Director

DATE: 11/23/16

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
Cornerstone Earth Group
Workorder# 1611197BR1

Four 1 Liter Summa Canister samples were received on November 11, 2016. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 X$'s the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

The workorder was reissued on 11/23/2016 to report additional compounds per client's request.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946**

Client Sample ID: SV-4

Lab ID#: 1611197BR1-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	15
Methane	0.00024	0.36
Carbon Dioxide	0.024	3.2

Client Sample ID: SV-3

Lab ID#: 1611197BR1-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	2.5
Methane	0.00024	0.16
Carbon Dioxide	0.024	11

Client Sample ID: SV-2

Lab ID#: 1611197BR1-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	7.0
Carbon Dioxide	0.024	9.7

Client Sample ID: SV-1

Lab ID#: 1611197BR1-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.9
Methane	0.00025	4.7
Carbon Dioxide	0.025	13



Air Toxics

Client Sample ID: SV-4

Lab ID#: 1611197BR1-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	10111624r1	Date of Collection:	11/10/16 10:56:00 A
Dil. Factor:	2.38	Date of Analysis:	11/16/16 12:45 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	15
Methane	0.00024	0.36
Carbon Dioxide	0.024	3.2

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: SV-3

Lab ID#: 1611197BR1-02A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	10111621r1	Date of Collection: 11/10/16 11:52:00 A
Dil. Factor:	2.38	Date of Analysis: 11/16/16 11:15 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	2.5
Methane	0.00024	0.16
Carbon Dioxide	0.024	11

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: SV-2

Lab ID#: 1611197BR1-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	10111622r1	Date of Collection:	11/10/16 12:44:00 P
Dil. Factor:	2.38	Date of Analysis:	11/16/16 11:41 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	7.0
Methane	0.00024	Not Detected
Carbon Dioxide	0.024	9.7

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: SV-1

Lab ID#: 1611197BR1-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	10111623r1	Date of Collection:	11/10/16 1:37:00 PM
Dil. Factor:	2.47	Date of Analysis:	11/16/16 12:08 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.9
Methane	0.00025	4.7
Carbon Dioxide	0.025	13

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1611197BR1-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	10111604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/15/16 06:18 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCS

Lab ID#: 1611197BR1-06A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	10111602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/15/16 05:27 PM

Compound	%Recovery	Method Limits
Oxygen	96	85-115
Methane	101	85-115
Carbon Dioxide	102	85-115

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1611197BR1-06AA

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name:	10111626a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/16/16 02:05 PM

Compound	%Recovery	Method Limits
Oxygen	96	85-115
Methane	98	85-115
Carbon Dioxide	102	85-115

Container Type: NA - Not Applicable

11/17/2016

Mr. Chris Heiny
Cornerstone Earth Group
1270 Springbrook Rd.
Suite 101
Walnut Creek CA 94597

Project Name: 914 W Grand Ave Oakland
Project #:
Workorder #: 1611197C

Dear Mr. Chris Heiny

The following report includes the data for the above referenced project for sample(s) received on 11/11/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Rachel Selenis at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Rachel Selenis
Project Manager

WORK ORDER #: 1611197C

Work Order Summary

CLIENT:	Mr. Chris Heiny Cornerstone Earth Group 1270 Springbrook Rd. Suite 101 Walnut Creek, CA 94597	BILL TO:	Accounts Payable Cornerstone Earth Group 1259 Oakmead Parkway Sunnyvale, CA 94085
PHONE:	925-988-9500	P.O. #	
FAX:		PROJECT #	914 W Grand Ave Oakland
DATE RECEIVED:	11/11/2016	CONTACT:	Rachel Selenis
DATE COMPLETED:	11/17/2016		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
05A	SV-1 (IPA)	Modified TO-15 (5&20 ppbv	5.0 "Hg	15.2 psi
06A	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
07A	CCV	Modified TO-15 (5&20 ppbv	NA	NA
08A	LCS	Modified TO-15 (5&20 ppbv	NA	NA
08AA	LCSD	Modified TO-15 (5&20 ppbv	NA	NA

CERTIFIED BY: 
 Technical Director

DATE: 11/17/16

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15 Soil Gas
Cornerstone Earth Group
Workorder# 1611197C

One PAC250 Canister samples was received on November 11, 2016. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample SV-1 (IPA) due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
EPA METHOD TO-15 GC/MS**

Client Sample ID: SV-1 (IPA)

Lab ID#: 1611197C-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	490	92000	1200	220000

Client Sample ID: SV-1 (IPA)

Lab ID#: 1611197C-05A

EPA METHOD TO-15 GC/MS

File Name:	j111618	Date of Collection:	11/10/16 1:36:00 PM
Dil. Factor:	24.4	Date of Analysis:	11/17/16 09:44 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	490	92000	1200	220000

Container Type: PAC250 Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1611197C-06A

EPA METHOD TO-15 GC/MS

File Name:	j111607	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	11/16/16 02:55 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	20	Not Detected	49	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1611197C-07A

EPA METHOD TO-15 GC/MS

File Name:	j111603a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/16/16 12:46 PM

Compound	%Recovery
2-Propanol	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: LCS
Lab ID#: 1611197C-08A
EPA METHOD TO-15 GC/MS

File Name:	j111604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/16/16 01:10 PM

Compound	%Recovery	Method Limits
2-Propanol	115	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: LCSD

Lab ID#: 1611197C-08AA

EPA METHOD TO-15 GC/MS

File Name:	j111605	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/16/16 01:35 PM

Compound	%Recovery	Method Limits
2-Propanol	118	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	107	70-130