

E&B NATURAL RESOURCES MANAGEMENT CORPORATION

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February 19, 2016

Ms Dilan Roe
Alameda County Environmental Health
Cleanup Oversight Program
1131 Harbor Bay Parkway
Alameda, CA 94502

RECEIVED

By Alameda County Environmental Health 12:27 pm, Feb 22, 2016

RE: RO0003181 – G.I.G. Monitoring Well Installation and Sampling Report

Ms Roe:

Enclosed is E&B Natural Resources Management's *Report: Groundwater Monitoring Well Installation and Sampling* ("Report") for its G.I.G. facility. The Report will also be uploaded to the GeoTracker database for Site ID T10000007269.

"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,



Jennifer Brady
Environmental Compliance Coordinator
E&B Natural Resources Management Corp.

REPORT:
GROUNDWATER MONITORING WELL
INSTALLATION AND SAMPLING

G.I.G. OIL PRODUCTION FACILITY
G.I.G. LEASE, LIVERMORE OIL FIELD
Section 7, T3S, R3E, MDB&M
8467 Patterson Pass Road, Livermore
Alameda County, California

Prepared for:

E&B Natural Resources Management Corporation
1600 Norris Road
Bakersfield, CA 93308

Prepared by:

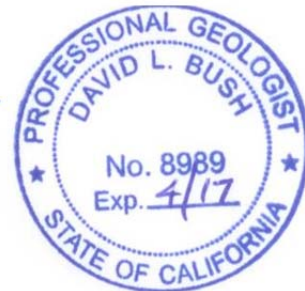
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Jeff L. Monroe
Project Geologist



David L. Bush, PG 8989
Professional Geologist



February 2, 2016

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ACEH Case No. RO0003181**

INTRODUCTION

This Groundwater Monitoring Well Installation and Sampling Report (Report) was prepared by Robert A. Booher Consulting (RAB Consulting) for E&B Natural Resources Management Corporation (E&B) as outlined in the approved Work Plan dated December 10, 2015. The work documented in this Report is an extension of earlier activities described in RAB Consulting's Soil Excavation and Groundwater Investigation Report dated December 18, 2015. The project work was requested by Alameda County Environmental Health (ACEH), case number RO0003181.

This Report describes activities to satisfy ACEH's and San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) requirements to further assess the potential for groundwater impacts at the site. The site is located at E&B's Greenville Investment Group's (G.I.G.) oil well production facility located at 8467 Patterson Pass Road, Livermore, Alameda County, California, in Section 7, T3S, R3E, MDB&M, as shown on Figure 1 and Figure 2.

BACKGROUND

In late March 2015, when E&B removed an unused 250 barrel stock tank which had been installed and operated by E&B's predecessor, they discovered dry, oil-stained soil beneath the unused tank. E&B removed the unused tank to improve the property and restore the facility. The former tank location was located near the southeast corner of the fenced facility at approximate latitude 37.693548, longitude -121.689431 (NAD 83, Figure 2). Since the removal of the stock tank, an above ground 300 barrel wash tank and 100 barrel produced water tank have also been decommissioned and removed from the property.

On October 29, 2015, upon receiving approval from ACEH for the September 16, 2015 Work Plan for Remedial Soil Excavation and Groundwater Investigation, and subsequent October 5, 2015 Addendum to Work Plan, RAB Consulting advanced a soil boring (B1) in the vicinity of the former western most tank. The boring was continuously logged to the depth of 50 feet below ground surface (bgs) and initial groundwater was encountered at 47 feet bgs. On November 6, 2015, soil excavation activities commenced as analytical results were continuously reviewed to verify residual contaminant removal, and onsite constraints were managed to allow continuation of these activities. The soil excavation activities, results of the initial soil boring, as well as the 2,000-foot well canvas are documented in RAB Consulting's Soil Excavation and Groundwater Investigation Report dated December 18, 2015.

Based on inconclusive results of very low concentrations of diesel range constituents and metals detected in the first encountered grab groundwater sample, RAB Consulting on behalf of E&B proposed the installation of shallow groundwater monitoring wells to establish a groundwater gradient, and better assess shallow groundwater quality characteristics. A Monitoring Well Installation and Sampling Work Plan dated December 10, 2015 was submitted and approved by ACEH. The results of these activities are described in this report.

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GEOLOGY

The site is located along the western edge of the Diablo Range in the eastern portion of Livermore Valley and the elevation of the surrounding area is between 640 to 680 feet above mean sea level. Relatively shallow and surface soils are comprised of alluvial and fluvial deposits.

Rock units exposed in the area are Tertiary to Quaternary age valley fill sediments, the Livermore Formation, the Tassajara Formation, the Miocene Neroly and Ceirobo Formations, the Eocene age Tesla Formation, and the Cretaceous and older Franciscan Formation and the Great Valley Sequence. Within close proximity, approximately 3.5 miles to the north and east-southeast of the project location, Department of Oil, Gas and Geothermal Resources (DOGGR) has documented two naturally occurring surface oil seeps in the general vicinity of the top of the Cierbo Formation. The Miocene and older formations have been extensively folded and faulted. The Greenville Fault is the youngest tectonic feature in the area, truncating all other structures, and lies within a mile of the site to the east. The Las Positas fault is within 1.2 miles to the southwest. The Corral Hollow Fault is located approximately 2 miles to the east of the site.

The entire floor of the Livermore Valley overlies groundwater bearing materials, including continental deposits from alluvial fans, valley fill deposits, and outwash plains. Domestic wells in the vicinity range in depths from 100-350 feet bgs, and municipal or irrigation wells range in depths of 315-810 feet bgs.

PROJECT PREPARATION, REVIEW PLANS AND PERMITTING

Upon approval of the Work Plan by the ACEH and receipt of Zone 7 well installation permit #2015162, RAB Consulting proceeded to drill three (3) soil borings and install shallow groundwater monitoring wells at the GIG Production Facility. The drilling and well installations were performed on December 21 and 22, 2015.

RAB Consulting observed and directed the subcontracted drilling company Gregg Drilling and Testing, Inc. (Gregg Drilling) to drill three (3) exploratory borings and convert the borings into monitoring wells. Drilling permit (#2015162) was acquired from the Zone 7 Water Agency. RAB Consulting notified E&B, Zone 7, and the ACEH of dates of drilling. Boring locations were marked and Underground Services Alert (USA) utility clearance was received (USAN 2015/12/07 #00000-0606382-000).

MONITORING WELL INSTALLATION

Soil Borings

RAB Consulting observed and directed Gregg Drilling in the drilling of three (3) soil borings in the locations shown on Figure 2 of this Report. Monitoring well (MW-1) was placed in the former source area near former soil boring B1 which was drilled on October 29, 2015, and two monitoring wells MW-2

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and MW-3 (soil borings B2 and B3) were located in the assumed down gradient direction from the source area (west), as site constraints allowed.

The soil borings were drilled using 8-inch diameter hollow stem augers and the borings were logged by driving split-spoon samplers into the undisturbed soil beneath the cutting bit of the augers at least every five feet bgs with the exception of MW-1. Since MW-1 was placed in the location of former B1 (lithology documented in RAB Consulting's report dated December 18, 2015) lithologic logging and sampling was performed where B1 had left off at fifty (50) feet bgs. Each sample core was lithologically logged by or under the direction of a California State Professional Geologist, and a boring log was prepared for each boring location.

The soil borings were advanced into the upper, unconfined groundwater interface located approximately 50 feet bgs, and extended into the underlying aquitard located at approximately 60 feet bgs. The monitoring wells were installed at the base of the upper unconfined aquifer.

Field and laboratory quality control (QC) procedures performed during the soil borings included the following:

- Sampling equipment was decontaminated by steam cleaning and/or washing with phosphate-free detergent and rinsing with potable water prior to use on site;
- Soil samples were collected every five feet for collection of additional analytical data and to prepare a lithologic log of the borings B2 and B3; MW-1 was placed approximately where the original B1 was drilled and logged and sampled at 50, 55 and 60 feet bgs extending in depth beneath former B1;
- Soil samples were retained in 2-inch brass or stainless steel sleeves, covered with Teflon sheets and plastic end caps;
- Retained soil samples were labeled, logged onto a chain of custody form and placed into an ice chest for transport to the State Certified laboratory for analysis;
- Soil samples were analyzed for Total Petroleum Hydrocarbons as gasoline, diesel and motor oil (TPH-G/D/MO) by EPA Method 8015, Volatile Organic Compounds (VOCs) by Method 8260, Semi-VOCs by Method 8270, CAM 17 Metals by EPA Method 6010;
- Soil cuttings produced during drilling activities were placed on the ground surface on visqueen sheeting, and covered with the same, pending proper disposal. RAB Consulting will prepare a letter with proper waste documentation that will be submitted under separate cover;
- Lithologic logs were prepared under the direction of and reviewed by a California State Professional Geologist.

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Monitoring Well Construction

Monitoring wells were constructed as shown on Figures 4 through 6 (Boring Logs and Well Construction Details). The borings were drilled with 8-inch hollow stem augers. Each well was constructed using 2-inch diameter flush-threaded PVC pipe and well screen. Fifteen (15) feet of 0.02 slotted well screen was installed in each boring, and placed from the bottom of the boring at sixty (60) feet bgs to approximately five (5) feet above the shallow groundwater interface of each boring at forty five (45) feet bgs.

The monitoring wells were completed with a 2-inch diameter PVC cap placed on the bottom of the well screen. The well screen/casing was inserted into the boring, and a clean 2/12 sand pack was placed into the boring extending from the bottom of the borehole to approximately three (3) feet above the top of the well screen. A two (2) foot bentonite seal was placed above the sand pack, then bentonite cement slurry was placed through a tremmie pipe to within one (1) foot of the surface. Zone 7 inspector Wyman Wong was present to observe installation of each well seal. Each monitoring well was completed with a well box set in cement, and the top of the well casing was completed with a locking water-tight cap.

MONITORING WELL DEVELOPMENT, SURVEYING, AND GROUNDWATER SAMPLING

Monitoring Well Development

On January 7, 2016, RAB Consulting and Gregg Drilling returned to the site to develop each monitoring well. Depth to static water level was measured, and the total amount of water to be purged to allow free water flow into the well was calculated. A 2-inch diameter surge block was used to surge the well to free the well screen of silts, fine sands or other material which inhibit free water flow. A low-flow electric purge pump was then lowered into each well to purge silty water from the well. Water quality parameters including temperature, pH, TDS, and turbidity was recorded during purging including the quantity of groundwater purged from the well and descriptions of water appearance. At least ten (10) well volumes were purged from the monitoring wells. Monitoring well development data sheets were prepared during the work, and are attached to this Report.

Purged Water

Well development water was contained in 55-gallon DOT drums pending analytical results. The drums were labeled and are currently stored on site pending proper disposal. RAB Consulting will prepare a letter with proper waste documentation that will be submitted under separate cover.

Monitoring Well Elevation Survey

On January 7, 2016, RAB Consulting met with Kier & Wright Civil Engineers and Surveyors, Inc. (Kier & Wright), a California State Licensed Land Surveyor, to perform a survey to determine the elevation (top of casing or TOC) at each monitoring well using the elevations relative to NAVD 88 Vertcon. The

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surveyor also determined the GPS coordinates of each monitoring wells relative to the NAD 83 Datum. The elevation survey data was used to determine the local groundwater gradient during the groundwater monitoring event (refer to a following section of this report). The well elevation and GPS data (x, y, z data) was uploaded to the State Geotracker database. The Kier & Wright Table of Elevations and Coordinates of Monitoring Wells is attached to this Report.

Groundwater Sampling

On January 12, 2016, RAB Consulting traveled to the site to perform the initial sampling event of the newly installed shallow groundwater monitoring wells. Prior to purging each well, the static water level was measured to the nearest 0.01 ft. (relative to the TOC reference point on each monitoring well) with an electronic water level sounder. After calculating the well casing volume, at least three (3) volumes was purged from the well at low-flow using dedicated electric purge pumps and Teflon lined tubing for each well. Water quality characteristics (temperature, pH, TDS, and turbidity) were measured during purging, and recorded on the attached sampling data sheets. After water quality parameters stabilized, or minimum of three (3) wells volumes evacuated from the each well, groundwater samples were collected.

Groundwater samples were decanted into laboratory supplied containers appropriate for the required analysis directly from the discharge point of the purge pump at low-flow to minimize degassing and collect representative formation groundwater (as opposed to using a bailer).

Field and laboratory quality control (QC) procedures for groundwater monitoring included the following:

- Dedicated, certified clean electric purge pumps and new Teflon lined poly tubing was used at each well location to minimize the potential for cross contamination;
- Gloves were worn at all times during the monitoring well sampling, and changed prior to each sample collected;
- Groundwater samples were decanted in pre-cleaned, certified laboratory provided containers appropriate for the required analysis;
- Groundwater samples were labeled, logged onto a chain of custody form and placed into an ice chest for transport to the State Certified laboratory for analysis.

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Purged Water

Well purge water was contained in 55-gallon DOT drums pending analytical results. The drums were labeled and stored on site. RAB Consulting will prepare a letter with proper waste documentation that will be submitted under separate cover.

Groundwater Gradient

Using the monitoring well elevations produced by Kier & Wright, the local, shallow groundwater gradient was calculated. The local shallow groundwater gradient beneath the subject site on January 12, 2016 was 0.0934 ft/ft, S83W. The groundwater gradient map is included in this Report in Figure 2.

LABORATORY ANALYSIS AND REVIEW OF GROUNDWATER SAMPLES

Groundwater samples collected during the January 12, 2016 sampling event were labeled, logged onto a chain of custody form and placed into an ice chest containing frozen “blue ice” for transport to our subcontracted California State Certified analytical laboratory. The groundwater samples were analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline, diesel and motor oil by EPA Test Method 8015, CAM 17 metals (EPA 6010), volatile organic compounds (EPA 8260B), semi-volatiles (EPA 8270C), and for general minerals (electrical conductivity, chlorides, boron, sodium, sulfate, and pH). The results of the groundwater samples collected from the shallow monitoring wells were reviewed by our California State Professional Geologist, and included in attached Tables 1 through 3. The analytical laboratory and QA/QC report dated February 1, 2016 is attached to this report.

DOMESTIC WATER SUPPLY WELL SAMPLING

At the request of the adjacent property owner, the two (2) closest domestic wells to the GIG project were scheduled for sampling. On December 21, 2015 Alpha Laboratories located in Dublin, California sent a sampling technician to collect water samples from these wells. The samples were designated Well #1 which is located west southwest of the GIG facility, and Well #2 (irrigation) located east of the GIG facility as shown on Figure 3. Water samples were analyzed for the same constituents as the GIG facility monitoring wells. In addition, water samples were analyzed for Total Coliform, E-Coli, general mineral anions by Method 300.1, as required for an Alameda County building permit. A summary of the analytical results are found in Table 4.

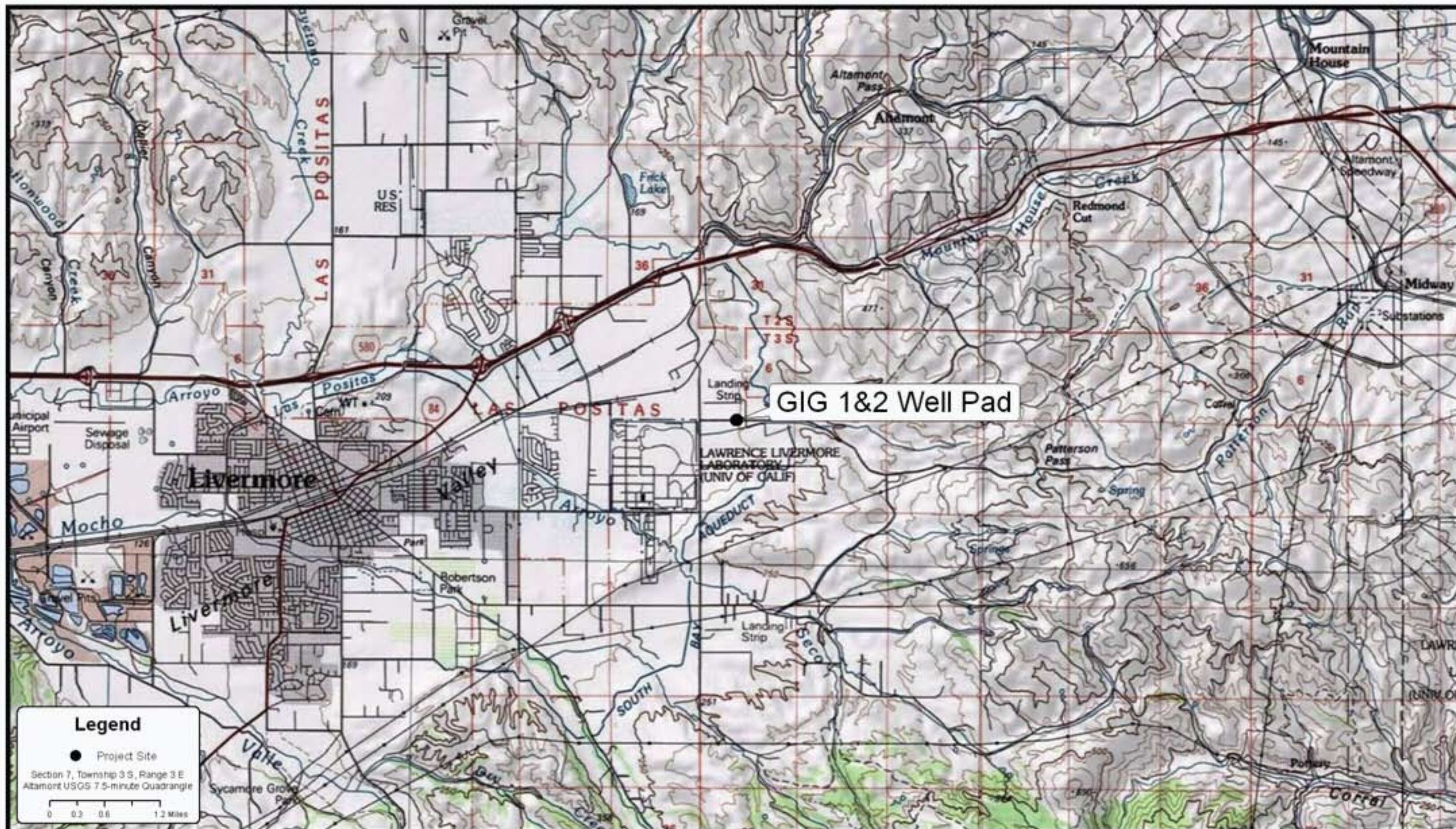
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CONCLUSION AND RECOMMENDATIONS

Based on the analytical results of the soil and groundwater samples collected during the installation of monitoring wells MW-1, MW-2, and MW-3, there were no detections of petroleum hydrocarbons as gasoline, diesel or motor oil, nor were there detections of volatile and semi-volatile organic hydrocarbons. There were also no detections of metals in groundwater samples collected from the newly installed monitoring wells, and metals detected in soils samples from the monitoring well soil borings were within background ranges. Additionally, there were no detections of constituents analyzed for in the nearby domestic water supply wells.

It is our opinion that the shallow and deeper groundwater quality has been adequately investigated and found to have no impacts from the GIG facility. Therefore, we recommend completing the groundwater phase of investigation and request ACEH approval to remove the shallow groundwater monitoring wells from the site.

FIGURES



Legend

- Project Site

Section 7, Township 3 S, Range 3 E
Altamont USGS 7.5-minute Quadrangle

0 0.2 0.6 1.2 Miles

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FIGURE 1
Project Vicinity Map

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Bakersfield, California 93308

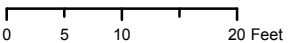




Legend

 Monitoring Well Locations

Section 7, Township 3 S, Range 3 E
Altamont USGS 7.5-minute Quadrangle

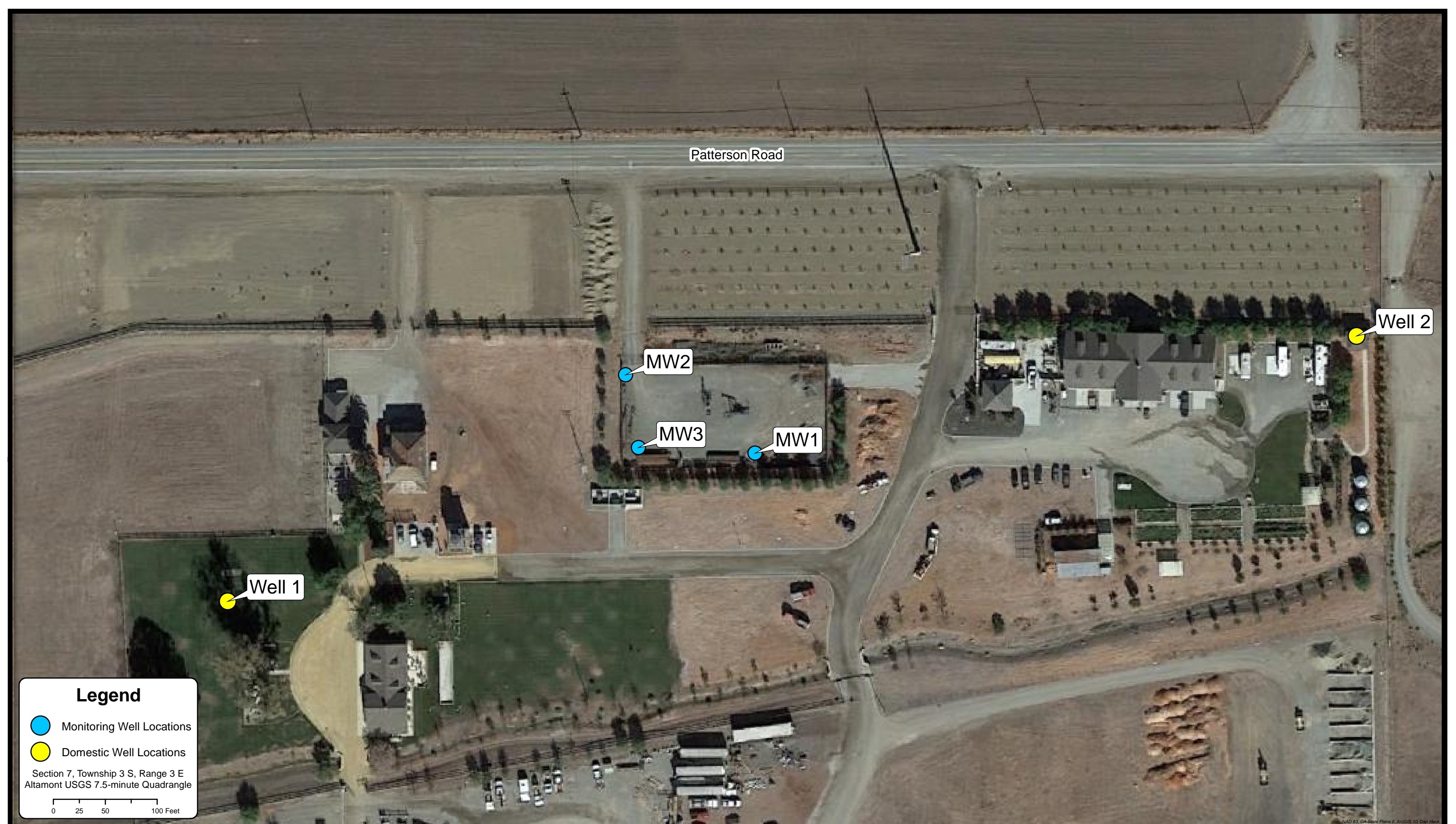


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FIGURE 2
Monitoring Well Location and Groundwater Gradient Map

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© 83, CA State Plane II, 2010, Dan Hack



Legend

- Monitoring Well Locations
- Domestic Well Locations

Section 7, Township 3 S, Range 3 E
Altamont USGS 7.5-minute Quadrangle

0 25 50 100 Feet

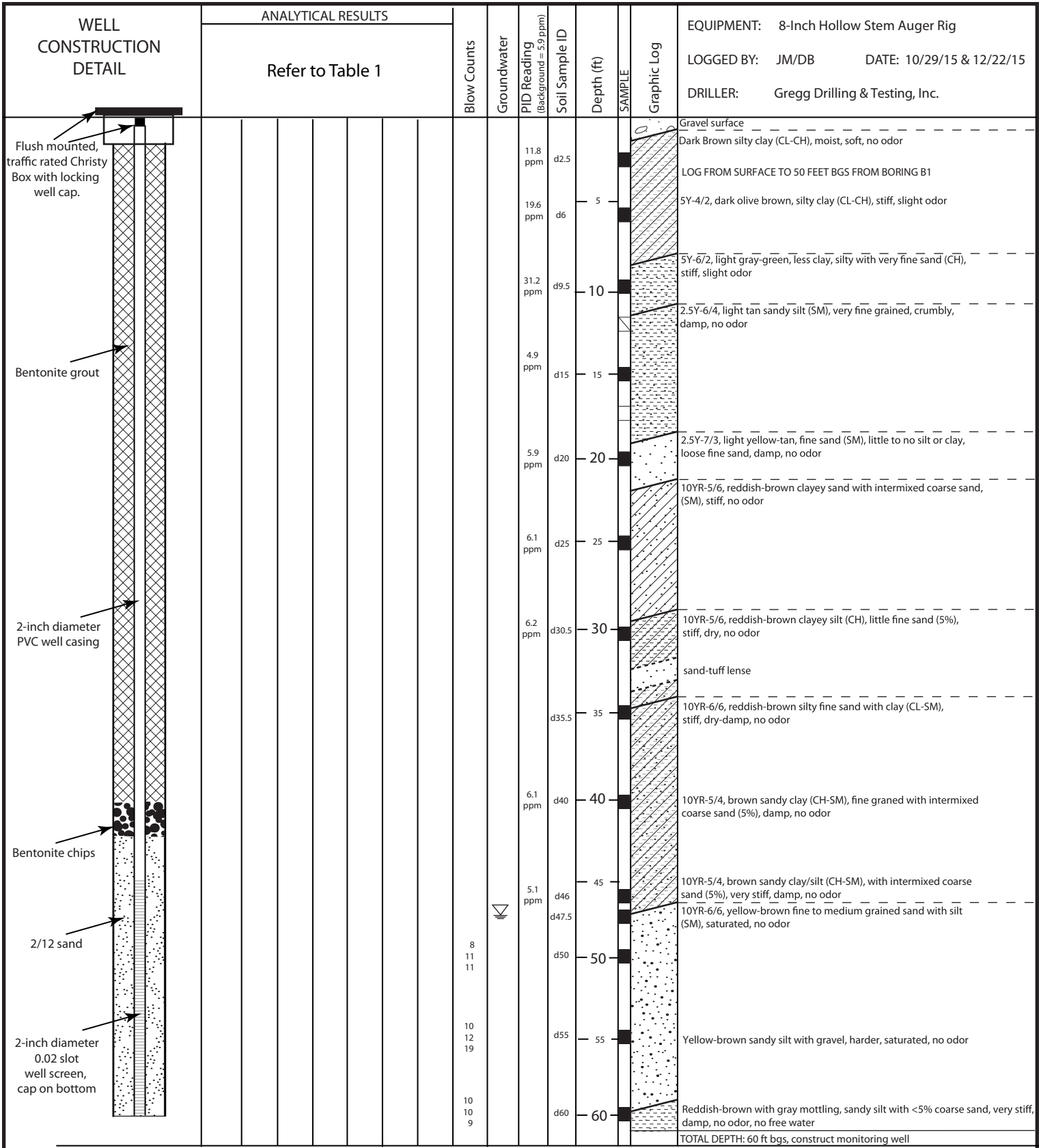
FIGURE 3
Domestic Well Location Map

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NAD 83, CA State Plane II, ArcGIS 10, Dan Heck



EXPLANATION

- Retained Soil Sample
- ▽ Saturated Groundwater Interface

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 DATE: FEB 2016

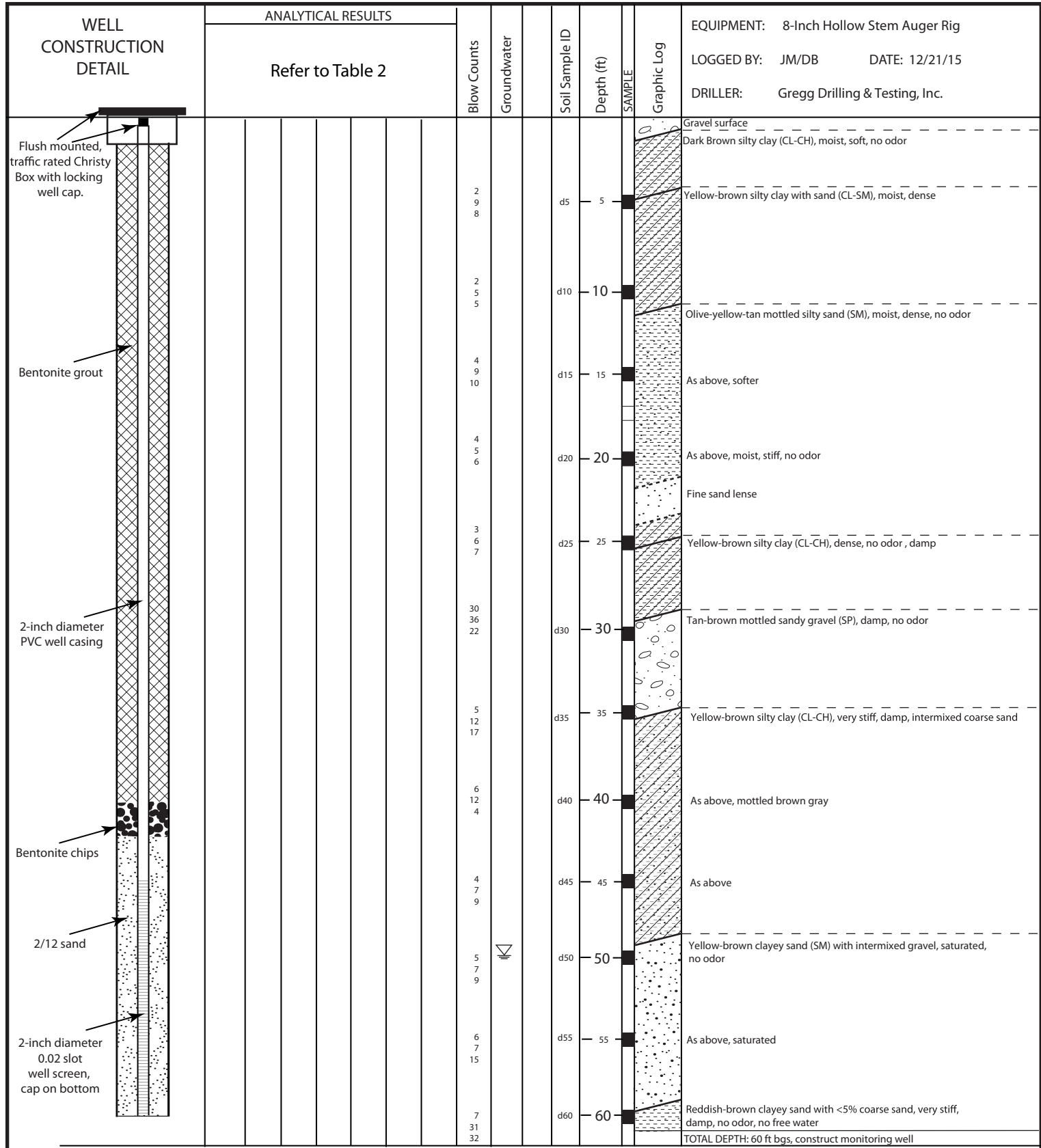
LITHOLOGIC LOG OF MW-1

REPORT: Monitoring Well Installation and Sampling

8467 Patterson Pass Road, Livermore, CA
 37.69360N, -121.68950W (WGS84)

FIGURE

4



EXPLANATION

■ Retained Soil Sample

▽ Saturated Groundwater Interface

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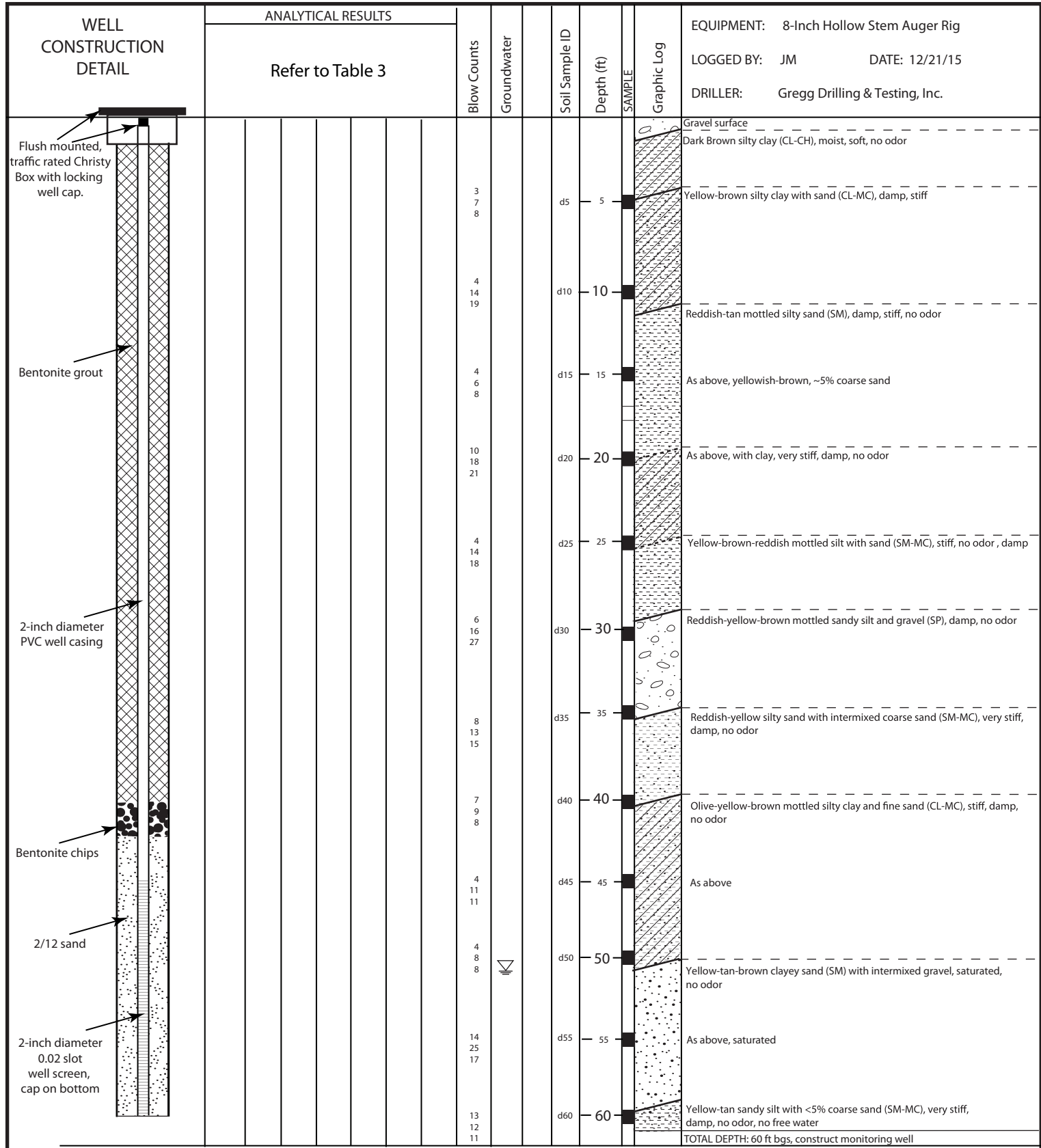
LITHOLOGIC LOG OF MW-2

REPORT: Monitoring Well Installation and Sampling

8467 Patterson Pass Road, Livermore, CA
 37.69360N, -121.68950W (WGS84)

FIGURE

5



EXPLANATION

■ Retained Soil Sample

▽ Saturated Groundwater Interface

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LITHOLOGIC LOG OF MW-3

REPORT: Monitoring Well Installation and Sampling

8467 Patterson Pass Road, Livermore, CA
 37.69360N, -121.68950W (WGS84)

FIGURE

6

TABLES

Table 1
Soil Boring B-1 and Monitoring Well 1 Analytical Summary

| Sample ID Depth | Date Sampled | TPH-g | TPH d | TPH MO | VOC's 8260 | Semi-VOC's 8270 | CAM 17 Metals (TTLIC) | | | | | | | | | | | | | | | | |
|--------------------|-----------------|--------|--------|-----------|---------------|--------------------|-----------------------|---------|----------|-------------|-----------|----------|---------|-------------|-----------|----------|---------|---------|--------|---------|---------|---------|----------|
| | | | | | | | Sb | As | Ba | Be | Cd | Cr | Co | Cu | Pb | Mg | Mo | Ni | Se | Ag | Ti | V | Zn |
| B1-d2.5 | 10/29/2015 | 6.4 | 280 | 340 | * | ND<0.1 | ND<.33 | 3.2 | *1800/15 | 0.29 | ND<.052 | 32 | 6.4 | 19 | 8.1 | ND<.036 | 0.22 | 23 | ND<.98 | 0.21 | ND<.064 | 28 | 36 |
| B1-d6.0 | 10/29/2015 | 1.5 | 8.4 | 100 | * | ** | ND<.33 | 2.1 | 270 | 0.37 | ND<.052 | 21 | 8 | 13 | 5.9 | 0.041 | ND<.05 | 23 | ND<.98 | 0.1 | ND<.064 | 22 | 40 |
| B1-d9.5 | 10/29/2015 | 11 | 2100 | 1500 | * | ** | ND<.33 | 3.3 | 280 | 0.35 | ND<.052 | 19 | 6.6 | 9.1 | 5.7 | ND<.036 | ND<.05 | 21 | ND<.98 | 0.14 | ND<.064 | 26 | 30 |
| B1-d15.0 | 10/29/2015 | ND<1.2 | 72 | 120 | ND | ND<0.1 | ND<.33 | 3 | 250 | 0.3 | ND<.052 | 15 | 5.9 | 8 | 5.1 | ND<.036 | 0.07 | 16 | ND<.98 | 0.12 | ND<.064 | 25 | 37 |
| B1-d20.0 | 10/29/2015 | ND<1.2 | ND<1.2 | ND<6.5 | ND | ND<0.1 | ND<.33 | 1.6 | 96 | 0.14 | ND<.052 | 6.3 | 2.7 | 4.5 | 2.8 | ND<.036 | ND<.05 | 6.8 | 1.3 | ND<.067 | ND<.064 | 15 | 13 |
| B1-d25.0 | 10/29/2015 | ND<1.2 | ND<1.2 | ND<6.5 | ND | ** | ND<.33 | 5.7 | 140 | 0.36 | ND<.052 | *58/ND | 15 | 29 | 8 | 0.036 | ND<.05 | 140 | 1.4 | 0.22 | ND<.064 | 34 | 45 |
| B1-d30.5 | 10/29/2015 | ND<1.2 | ND<1.2 | ND<6.5 | ND | ND<0.1 | ND<.33 | 4.6 | 130 | 0.31 | ND<.052 | 50 | 15 | 25 | 7.1 | 0.063 | ND<.05 | 120 | ND<.98 | 0.22 | ND<.064 | 32 | 39 |
| B1-d35.5 | 10/29/2015 | ND<1.2 | ND<1.2 | ND<6.5 | ND | ND<0.1 | ND<.33 | 3 | 120 | 0.44 | ND<.052 | 19 | 8.6 | 17 | 6.4 | 0.051 | ND<.05 | 18 | ND<.98 | 0.13 | ND<.064 | 28 | 52 |
| B1-d40.0 | 10/29/2015 | ND<1.2 | ND<1.2 | ND<6.5 | ND | ND<0.1 | ND<.33 | 2.7 | 95 | 0.37 | ND<.052 | 15 | 6.5 | 12 | 5.5 | ND<.036 | 0.09 | 19 | ND<.98 | 0.16 | ND<.064 | 26 | 36 |
| B1-d46.0 | 10/29/2015 | ND<1.2 | ND<1.2 | ND<6.5 | ND | ND<0.1 | ND<.33 | 2.3 | 58 | 0.45 | ND<.052 | 20 | 8 | 16 | 6.4 | 0.04 | 0.084 | 20 | ND<.98 | 0.08 | ND<.064 | 27 | 46 |
| B1-d47.5 | 10/29/2015 | ND<1.2 | ND<1.2 | ND<6.5 | ND | ND<0.1 | ND<.33 | 3.4 | 59 | 0.31 | ND<.052 | 16 | 6.5 | 18 | 4.5 | ND<.036 | 0.11 | 20 | 1.4 | 0.12 | ND<.064 | 28 | 75 |
| MW1-d50.5 | 12/21/2015 | ND<1.2 | ND<1.2 | ND<6.5 | ND | ND<0.1 | ND<.33 | 31 | 40 | 0.3 | ND<.052 | 17 | 7.2 | 9.8 | 4.4 | 0.039 | 0.3 | 18 | ND<.98 | 0.21 | ND<.064 | 31 | 22 |
| MW1-d55.5 | 12/21/2015 | ND<1.2 | ND<1.2 | ND<6.5 | ND | ND<0.1 | ND<.33 | 5.4 | 31 | 0.3 | ND<.052 | 37 | 11 | 22 | 5.2 | ND<.036 | 0.16 | 88 | ND<.98 | 0.24 | ND<.064 | 29 | 36 |
| MW1-d61 | 12/21/2015 | ND<1.2 | ND<1.2 | ND<6.5 | ND | ND<0.1 | ND<.33 | 5.5 | 20 | 0.23 | ND<.052 | 43 | 13 | 19 | 6.2 | 0.041 | ND<.05 | 94 | ND<.98 | 0.3 | 0.96 | 27 | 34 |
| Water/ug/L | | | | | | | | | | | | | | | | | | | | | | | |
| B1-GW47.0 | 10/29/2015 | ND | 210 | ND | ND | ** | ND | 370 | 12000 | 47 | ND | 3100 | 640 | 1300 | 500 | 1.2 | ND | 1900 | ND | ND | ND | 2900 | 2900 |
| | | | | | | D-Ca | T-Ca | D-Mg | T-Mg | D-Na | T-Na | D-K | T-K | Bicarbonate | Carbonate | Chloride | Nitrite | Sulfate | pH | EC | TDS | Boron | TR-Boron |
| | | | | | | 130mg/L | 4700mg/L | 55mg/L | 480mg/L | 310mg/L | 360mg/L | 3.3mg/L | 120mg/L | 370mg/L | ND | 370mg/L | 7.5mg/L | 400mg/L | 7.71 | 2460 | 1500 | 7.4mg/L | 7900ug/L |
| Water/ug/L | | | | | | | | | | | | | | | | | | | | | | | |
| MW-1 | 1/12/2016 | ND<50 | ND<50 | ND<200 | ND<1.0 | ND<5.0 | ND<50 | ND<20 | ND<50 | ND<10 | ND<10 | ND<10 | ND<50 | ND<50 | ND<50 | ND<0.20 | ND<20 | ND<50 | ND<50 | ND<10 | ND<50 | ND<20 | ND<50 |
| | | | | | | Ca | Mg | Na | K | Bicarbonate | Carbonate | Chloride | Nitrite | Sulfate | pH | EC | TDS | Boron | | | | | |
| | | | | | | 120mg/L | 49mg/L | 290mg/L | 3.2mg/L | 290mg/L | ND | 380mg/L | 10mg/L | 360mg/L | 7.49 | 2300 | 1500 | 7.4mg/L | | | | | |

Note: Soil and Water Results for B1 were reported in Excavation and Groundwater Investigation Report dated 12/18/15, listed for historical reference only. B1 was excavated to 16 feet in depth.

Soil Sample Results in mg/Kg and Water Samples in ug/L unless noted

TPH=Total Petroleum Hydrocarbons as gas(g), diesel(d) and motor oil(mo)

VOC=Volatile Organic Compounds, Constituents reviewed found less than Environmental Screening Levels (ESLs). B1 ND<.005 with exception <.01 Total Xylene/Methylene Chloride

D=Dissolved; T=Total; TR=Total Recoverable; TDS=Total Dissolved Solids; EC=Electrical Conductivity

* Refer to report dated 12-18-15 for B1 VOCs detected <.05 for n-Butylbenzene, sec-Butylbenzene, tect-Butylbenzene, Isopropylbenzene, n-Propylbenzene and Naphthalene

** Refer to Analytical Reports in report dated 12-18-15 for B1 SVOCs Minor Detections <0.2 for Fluorene, Phenanthrene and 2-Mthynaphthalene

Table 2
Soil Boring B-2 and Monitoring Well 2 Analytical Summary

| Sample ID Depth | Date Sampled | TPH-g | TPH d | TPH MO | VOC's 8260 | Semi-VOC's 8270 | CAM 17 Metals (TTLC) | | | | | | | | | | | | | | | | |
|--------------------|-----------------|-------|--------|-----------|---------------|--------------------|----------------------|--------|-------|---------|---------|---------|-------|-------------|-----------|----------|---------|---------|---------|----------|----------|---------|-------|
| | | | | | | | Sb | As | Ba | Be | Cd | Cr | Co | Cu | Pb | Mg | Mo | Ni | Se | Ag | Ti | V | Zn |
| B2-d5.0 | 12/21/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<0.10 | ND<0.33 | 3.6 | 280 | 0.33 | ND<0.05 | 17 | 6.5 | 11 | 4.7 | ND<0.036 | 0.2 | 21 | ND<0.98 | ND<0.067 | ND<0.064 | 24 | 28 |
| B12-d10.5 | 12/21/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<0.10 | ND<0.33 | 5.3 | 370 | 0.39 | ND<0.05 | 18 | 7.6 | 11 | 5.4 | ND<0.036 | 0.11 | 20 | ND<0.98 | 0.17 | ND<0.064 | 30 | 31 |
| B2-d15.0 | 12/21/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<0.10 | ND<0.33 | 2.2 | 180 | 0.16 | ND<0.05 | 7.3 | 3.7 | 5.6 | 2.9 | ND<0.036 | 0.1 | 8.4 | ND<0.98 | 0.1 | ND<0.064 | 16 | 17 |
| B2-d20.0 | 12/21/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<0.10 | ND<0.33 | 3.5 | 350 | 0.29 | 0.063 | 15 | 6.1 | 14 | 4.4 | ND<0.036 | 0.16 | 16 | ND<0.98 | 0.24 | ND<0.064 | 25 | 30 |
| B2-d25.0 | 12/21/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<0.10 | ND<0.33 | 2 | 190 | 0.2 | ND<0.05 | 10 | 4 | 5.4 | 3.2 | ND<0.036 | 0.05 | 10 | ND<0.98 | 0.11 | ND<0.064 | 19 | 14 |
| B2-d30.0 | 12/21/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<0.10 | ND<0.33 | 6.4 | 89 | 0.18 | ND<0.05 | 98 | 31 | 30 | 3.1 | 0.081 | ND<0.05 | 280 | ND<0.98 | 0.34 | 0.71 | 33 | 43 |
| B2-d35.0 | 12/21/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<0.10 | ND<0.33 | 4.3 | 150 | 0.49 | 0.096 | 21 | 7.7 | 12 | 5.7 | ND<0.036 | ND<0.05 | 31 | ND<0.98 | 0.22 | ND<0.064 | 29 | 29 |
| B2-d40.0 | 12/21/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<0.10 | ND<0.33 | 5.3 | 130 | 0.43 | ND<0.05 | 17 | 8.3 | 11 | 5.7 | ND<0.036 | 0.093 | 27 | ND<0.98 | 0.13 | ND<0.064 | 32 | 28 |
| B2-d45.0 | 12/21/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<0.10 | ND<0.33 | 2.7 | 96 | 0.49 | ND<0.05 | 23 | 6.1 | 11 | 5.3 | ND<0.036 | ND<0.05 | 18 | ND<0.98 | 0.15 | ND<0.064 | 23 | 29 |
| B2-d50.0 | 12/21/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<0.10 | ND<0.33 | 3.6 | 50 | 0.35 | ND<0.05 | 19 | 6.1 | 14 | 4 | ND<0.036 | 0.16 | 20 | ND<0.98 | 0.17 | ND<0.064 | 25 | 26 |
| B2-d55.0 | 12/21/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<0.10 | ND<0.33 | 4.2 | 61 | 0.27 | ND<0.05 | 22 | 5.4 | 13 | 3.7 | ND<0.036 | 0.064 | 20 | ND<0.98 | 0.23 | ND<0.064 | 30 | 32 |
| B2-d60.5 | 12/21/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<0.10 | ND<0.33 | 3.7 | 24 | 0.25 | ND<0.05 | 30 | 6.5 | 13 | 3.3 | 0.061 | 0.11 | 35 | ND<0.98 | 0.26 | ND<0.064 | 20 | 24 |
| Water/ug/L | | | | | | | | | | | | | | | | | | | | | | | |
| MW-2 | 1/12/2016 | ND<50 | ND<50 | ND<200 | ND<1.0 | ND<5.0 | ND<50 | ND<20 | ND<50 | ND<10 | ND<10 | ND<10 | ND<50 | ND<50 | ND<50 | ND<0.2 | ND<20 | ND<50 | ND<50 | ND<10 | ND<50 | ND<20 | ND<50 |
| GenMinerals | | | | | | Ca | | Mg | | Na | | K | | Bicarbonate | Carbonate | Chloride | Nitrite | Sulfate | pH | EC | TDS | Boron | ND<50 |
| | | | | | | 130mg/L | | 52mg/L | | 300mg/L | | 3.2mg/L | | 290mg/L | ND | 390mg/L | 10mg/L | 290mg/L | 7.35 | 2400 | 1500 | 7.9mg/L | |

Note: Soil Sample Results in mg/Kg

Water Samples in ug/L unless noted

TPH=Total Petroleum Hydrocarbons as gas(g), diesel(d) and motor oil(mo)

VOC=Volatile Organic Compounds, MDLs are ND<.005 with exceptions ND<.01 for Total Xylenes and Methylene Chloride. Results reviewed all below ESLs.

D=Dissolved; T=Total; TR=Total Recoverable; TDS=Total Dissolved Solids; EC=Electrical Conductivity

Table 3
Soil Boring B-3 and Monitoring Well 3 Analytical Summary

| Sample ID Depth | Date Sampled | TPH-g | TPH d | TPH MO | VOC's 8260 | Semi-VOC's 8270 | CAM 17 Metals (TTLIC) | | | | | | | | | | | | | | | | |
|--------------------|-----------------|-------|--------|-----------|---------------|--------------------|-----------------------|--------|-------|---------|---------|---------|-------|-------------|-----------|----------|---------|---------|---------|-------|---------|---------|-------|
| | | | | | | | Sb | As | Ba | Be | Cd | Cr | Co | Cu | Pb | Mg | Mo | Ni | Se | Ag | Ti | V | Zn |
| B3-d5.5 | 12/22/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<1.0 | ND<0.33 | 4.2 | 230 | 0.37 | ND<.052 | 21 | 8 | 9.2 | 5 | ND<.036 | ND<0.05 | 27 | ND<0.98 | 0.087 | ND<.064 | 27 | 28 |
| B3-d10.5 | 12/22/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<1.0 | ND<0.33 | 4.2 | 460 | 0.39 | ND<.052 | 22 | 6.4 | 13 | 4.6 | ND<.036 | ND<0.05 | 22 | ND<0.98 | 0.19 | ND<.064 | 32 | 33 |
| B3-d15.5 | 12/22/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<1.0 | ND<0.33 | 3.3 | 220 | 0.29 | ND<.052 | 17 | 6.3 | 8.1 | 3.9 | ND<.036 | ND<0.05 | 19 | ND<0.98 | 0.15 | ND<.064 | 24 | 26 |
| B3-d20.5 | 12/22/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<1.0 | ND<0.33 | 4.1 | 170 | 0.48 | ND<.052 | 19 | 10 | 12 | 6.6 | ND<.036 | ND<0.05 | 25 | ND<0.98 | 0.097 | ND<.064 | 28 | 29 |
| B3-d25.5 | 12/22/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<1.0 | ND<0.33 | 4.7 | 110 | 0.39 | ND<.052 | 33 | 13 | 18 | 6.1 | 0.053 | 0.12 | 65 | ND<0.98 | 0.21 | 0.94 | 31 | 36 |
| B3-d30.5 | 12/22/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<1.0 | ND<0.33 | 4.9 | 86 | 0.28 | ND<.052 | 65 | 15 | 24 | 5.3 | 0.06 | ND<0.05 | 170 | ND<0.98 | 0.32 | 1.1 | 30 | 42 |
| B3-d35.5 | 12/22/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<1.0 | ND<0.33 | 3.6 | 100 | 0.33 | ND<.052 | 14 | 9.4 | 11 | 6.2 | ND<.036 | 0.43 | 52 | ND<0.98 | 0.17 | ND<.064 | 25 | 22 |
| B3-d40.5 | 12/22/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<1.0 | ND<0.33 | 2.7 | 76 | 0.51 | ND<.052 | 23 | 9.2 | 12 | 6.8 | 0.038 | 0.14 | 35 | ND<0.98 | 0.21 | ND<.064 | 24 | 31 |
| B3-d45.5 | 12/22/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<1.0 | ND<0.33 | 3.6 | 190 | 0.44 | 0.081 | 21 | 7.9 | 12 | 5.5 | ND<.036 | 0.087 | 27 | ND<0.98 | 0.23 | ND<.064 | 28 | 29 |
| B3-d50.5 | 12/22/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<1.0 | ND<0.33 | 5.1 | 110 | 0.38 | ND<.052 | 19 | 7.8 | 11 | 4.5 | ND<.036 | 0.2 | 26 | ND<0.98 | 0.2 | ND<.064 | 35 | 28 |
| B3-d55.5 | 12/22/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<1.0 | ND<0.33 | 8.2 | 38 | 0.26 | ND<.052 | 10 | 5.6 | 14 | 3.6 | 0.082 | 0.6 | 14 | ND<0.98 | 0.22 | ND<.064 | 28 | 28 |
| B3-d60.5 | 12/22/2015 | ND<5 | ND<1.2 | ND<6.5 | ND<.005 | ND<1.0 | ND<0.33 | 4.6 | 33 | 0.28 | ND<.052 | 28 | 11 | 18 | 7 | 0.043 | 0.43 | 55 | ND<0.98 | 0.23 | 0.88 | 27 | 33 |
| Water/ug/L | | | | | | | | | | | | | | | | | | | | | | | |
| MW-3 | 1/12/2016 | ND<50 | ND<50 | ND<200 | ND<1.0 | ND<5.0 | ND<50 | ND<20 | ND<50 | ND<10 | ND<10 | ND<10 | ND<50 | ND<50 | ND<50 | ND<0.2 | ND<20 | ND<50 | ND<50 | ND<10 | ND<50 | ND<20 | ND<50 |
| GenMinerals | | | | | | Ca | | Mg | | Na | | K | | Bicarbonate | Carbonate | Chloride | Nitrite | Sulfate | pH | EC | TDS | Boron | |
| | | | | | | 130mg/L | | 55mg/L | | 290mg/L | | 3.2mg/L | | 300mg/L | ND | 380mg/L | 6.4mg/L | 460mg/L | 7.71 | 2500 | 1500 | 7.7mg/L | |

Note: Soil Sample Results in mg/Kg
Water Samples in ug/L unless noted
TPH=Total Petroleum Hydrocarbons as gas(g), diesel(d) and motor oil(mo). Results below ESLs.
VOC=Volatile Organic Compounds. MDLs ND<.005 with exception ND<.01 for Total Xylenes and Methylene Chloride. Results reviewed indicate results below ESLs.
D=Dissolved; T=Total; TR=Total Recoverable; TDS=Total Dissolved Solids; EC=Electrical Conductivity

Table 4
Domestic Wells Sample Analytical Summary

| Sample ID Depth | Date Sampled | NO3/ SO4 | Chloride/ Fluoride | TDS | VOC's 8260 | Semi- VOC's 8270 | TPH- g/d/mo | CAM 17 Metals (TTLIC) | | | | | | | | | | | | | | | | |
|--------------------|-----------------|-------------|-----------------------|------|---------------|------------------------|----------------|-----------------------|--------|-------|---------|--------|--------|--------|--------|--------|---------|-------|--------|--------|--------|-------|--------|-------|
| | | | | | | | | Sb | As | Ba | Be | Cd | Cr | Co | Cu | Pb | Hg | Mo | Ni | Se | Ag | Tl | V | Zn |
| Well #1 | 12/21/2015 | 41/250 | 310/1.2 | 1300 | ND<.001 | ND<.005 | ND<.25 | ND<.02 | ND<.01 | 0.017 | ND<.001 | ND<.01 | ND<.01 | ND<.01 | ND<.02 | ND<.05 | ND<.001 | ND<.5 | ND<.01 | ND<.02 | ND<.01 | ND<.2 | ND<.02 | 0.029 |
| Well #2 | 12/21/2015 | 14/330 | 270/1.2 | 1500 | ND<.001 | ND<.005 | ND<.25 | ND<.02 | ND<.01 | 0.011 | ND<.001 | ND<.01 | ND<.01 | ND<.01 | 0.04 | ND<.05 | ND<.001 | ND<.5 | ND<.01 | ND<.02 | ND<.01 | ND<.2 | ND<.02 | 0.025 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

Note: Refer to attached Analytical Laboratory Reports for additional analyses requested by the well owner
Sample Results in mg/L unless noted
TPH=Total Petroleum Hydrocarbons (gas, diesel and motor oil). MDLsTPH-gas/diesel ND<50ug/L, TPH-motor oil ND<200ug/L
VOC=Volatile Organic Compounds; ND=Not Detected at or above laboratory detection limits. Results reviewed and below ESLs.
TDS=Total Dissolved Solids

MONITORING WELL DEVELOPMENT SHEETS



MONITORING WELL DEVELOPMENT LOG

FRONT GATE - CLOSEST TO ENTRANCE

All measurements taken from: Top of Casing Protective Casing Ground Level

Sample ID _____

Well Number MW-2

Borehole Diameter 8"

Qty. of Drilling Fluid Lost _____

Date 1.6.11

Screen Length 15 FT

Minimum Gal. to be Purged _____

Time Start: 815 End: 1110

Measured Depth (pre-development) 59.40

Development Method Bail Surge

Client ESB

Measured Depth (post-development) 59.65

Bail-pump

Project _____

Static Water Level (ft.) 48.60

Purging Equipment SS Bail/Air - 2" pump

Job Number D2150527

Standing Water Column (ft.) _____

Water Level Equipment SolinkT

Installation Date _____

One Casing Volume (gal.) _____

pH/EC Meter HANNA USA

Well Diameter 2"

One Annulus Vol. (gal.) _____

Turbidity Meter HANNA US6

Other _____

| Time | Amount Purged (gal.) | Field Parameters Measured | | | | | | | GPM | W.L. | Comments | Field Tech. |
|------|----------------------|-----------------------------|------|-----------|------|-------------|-----|------|-------|----------------|----------|-------------|
| | | pH | EC | Turbidity | D.O. | Temperature | SAL | W.L. | | | | |
| 926 | 22 | 7.63 | 2.78 | 96.1 | - | 9.06 | 1.4 | 112 | 52.80 | Bail - 8 gal | | |
| 930 | 24 | 7.56 | 2.79 | 87.4 | - | 11.02 | 1.4 | 112 | 53.13 | Surge - 10 min | | |
| 934 | 26 | 7.44 | 2.76 | 102 | - | 11.74 | 1.4 | 112 | 53.79 | Bail - 7 gal | | |
| 938 | 28 | 7.47 | 2.68 | 67.1 | - | 11.80 | 1.4 | 112 | 53.76 | | | |
| 942 | 30 | 7.43 | 2.71 | 71.4 | - | 11.81 | 1.4 | 112 | 53.12 | | | |
| 946 | 32 | 7.36 | 2.69 | 48.3 | - | 12.23 | 1.4 | 112 | 52.25 | | | |
| 950 | 34 | 7.37 | 2.70 | 36.5 | - | 12.19 | 1.4 | | 52.21 | | | |
| | | MOVE PUMP UP THROUGH SCREEN | | | | | | | | | | |
| 1005 | 41 | 7.27 | 2.69 | 43.2 | - | 12.20 | 1.4 | 112 | 52.00 | | | |
| 1009 | 43 | 7.22 | 2.69 | 14.1 | - | 12.21 | 1.4 | 112 | 52.00 | | | |
| 1013 | 45 | 7.20 | 2.70 | | - | 12.24 | 1.4 | 112 | 52.00 | | | |

1.3 FINAL FIELD PARAMETER MEASUREMENTS

MONITORING WELL SURVEY

**TABLE OF ELEVATIONS & COORDINATES
ON MONITORING WELLS**

ENVIRONMENTAL GEOLOGY SERVICES
8467 PATTERSON PASS ROAD, LIVERMORE, CA

| WELL ID # | NORTHING (FT.) / LATITUDE (D.M.S.) | EASTING (FT.) / LONGITUDE (D.M.S.) | ELEVATION (FT.) | DESCRIPTION |
|-----------|------------------------------------|------------------------------------|-----------------|-----------------------|
| MW-1 | 2077183.280 | 6217501.205 | 656.55 | 2" PVC NORTH SIDE |
| | N 37° 41' 36.74548" | W 121° 41' 22.28397" | 657.24 | RIM OF WELL |
| | | | 657.11 | DIRT 1' NORTH OF WELL |
| MW-2 | 2077253.888 | 6217389.191 | 654.70 | 2" PVC NORTH SIDE |
| | N 37° 41' 37.42944" | W 121° 41' 23.68872" | 655.28 | RIM OF WELL |
| | | | 655.25 | DIRT 1' NORTH OF WELL |
| MW-3 | 2077200.621 | 6217400.457 | 655.41 | 2" PVC NORTH SIDE |
| | N 37° 41' 36.90425" | W 121° 41' 23.54013" | 655.89 | RIM OF WELL |
| | | | 655.79 | DIRT 1' NORTH OF WELL |

BENCHMARK: NGS BENCHMARK PID HS3488

DESCRIBED BY COAST AND GEODETIC SURVEY 1958

4.8 MI SW FROM ALTAMONT.

3.5 MILES SOUTHWEST ALONG THE SOUTHERN PACIFIC COMPANY RAILROAD FROM THE ABANDONED STATION AT ALTAMONT, THENCE 1.3 MILES SOUTH ALONG GREENVILLE ROAD, IN R2E T3S S12, 24 FEET WEST-SOUTHWEST OF THE CENTER OF THE T JUNCTION OF PATTERSON PASS ROAD LEADING EAST, 22 FEET WEST OF THE CENTER LINE OF GREENVILLE ROAD, 18 FEET NORTHEAST OF THE NORTHEAST FENCE CORNER POST OF A MESH WIRE FENCE AROUND PROPERTY OF THE ATOMIC ENERGY COMMISSION, 2 1/2 FEET SOUTHEAST OF A FENCE CORNER POST, 1 FOOT WEST OF A WITNESS POST, ABOUT LEVEL WITH THE ROAD, AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.2 FOOT ABOVE THE GROUND.

ELEVATION = 618.708 NAVD 88 VERTCON

HORIZONTAL CONTROL:

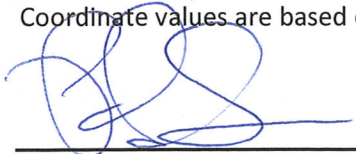
PID: AA3816

NORTHING: 2085288.24, EASTING: 6213126.45, EPOCH DATE: 2010.00

PID: AC6328

NORTHING: 2078588.26, EASTING: 6180010.44, EPOCH DATE: 2010.00

Coordinate values are based on the California Coordinate System, Zone III NAD 83 Datum.



1/13/16

PREPARED BY OR UNDER THE SUPERVISION OF

DATE

RODNEY A STEWART II, PLS 9225

LICENSE EXPIRES: 09/30/2017



Kier & Wright Civil Engineers & Surveyors
2850 Collier Canyon Road, Livermore, CA 94551

Phone: (925) 245-8788

Fax: (925) 245-8796

MONITORING WELL SAMPLING DATA SHEETS

MONITORING WELL SAMPLING DATA SHEET

PROJECT NO: 538.0915
 DATE: 1-12-16
 JOB NAME: 616 FACILITY
 JOB ADDRESS: 8467 PATTERSON PASS
 SAMPLED BY: DUB

WELL NO: MW-1
 TOC ELEV: 656.55
 BORING DIAMETER (d): 8"
 WELL CASING DIAMETER: 2"

| DEPTH MEASURED | FEET |
|---------------------------|-------|
| DEPTH TO WATER (D) | 40.21 |
| DEPTH TO PRODUCT | na |
| PRODUCT THICKNESS | 0 |
| DEPTH TO BOTTOM OF CASING | 59.65 |
| WATER THICKNESS (h) | 19.44 |

Groundwater Elevation: TOC-D = 616.34

VOLUME OF WATER TO BE PURGED
 3 Well Volumes: $3 \times 0.17 \times h = 9.91$

VOLUME OF WATER PURGED FROM WELL: 10 gallons

| TIME | pH | TEMP (°C) | DO | Cond | TDS (ppm) | ORP | Turb (NTU) | VOL (gal) | APPEARANCE |
|------|------|-----------|-------|------|-----------|-----|------------|-----------|------------------------------------|
| 1216 | 7.59 | 18.4 | 10.23 | 2130 | 1360 | 141 | - | 1 | CLEAR, NO O ₂ OR SCREEN |
| 1219 | 7.52 | 18.13 | 9.17 | 2180 | 1390 | 164 | 230 | 2.5 | CLEAR, NO O ₂ OR SCREEN |
| 1222 | 7.41 | 18.16 | 10.41 | 2220 | 1430 | 169 | 190 | 5 | CLEAR, NO O ₂ OR SCREEN |
| 1226 | 7.41 | 18.12 | 7.01 | 2280 | 1460 | 172 | 98 | 7.5 | " |
| 1230 | 7.52 | 18.28 | 8.55 | 2300 | 1470 | 174 | 77 | 10 | " |

TIME SAMPLED COLLECTED: 1230
 DEPTH RECOVERED TO: LOW FLOW
 SAMPLER TYPE: DIRECT DESCANT
 SAMPLE CONTAINERS: 3 VOA, 2L, PLASTIC
 TESTS REQUIRED: 8015, 8260, 8270, 6010
 ANALYTICAL LAB: Analytical Sciences, Petaluma
 COMMENTS: WATER CLEAR WHEN SAMPLED,
NO O₂ OR SCREEN OBSERVED

MONITORING WELL SAMPLING DATA SHEET

PROJECT NO: 538.0915
 DATE: 1-12-16
 JOB NAME: GIG FACILITY
 JOB ADDRESS: 8467 PATTERSON FALS
 SAMPLED BY: DLB

WELL NO: MW-2
 TOC ELEV: 654.70
 BORING DIAMETER (d): 8"
 WELL CASING DIAMETER: 2"

| DEPTH MEASURED | FEET |
|---------------------------|--------------|
| DEPTH TO WATER (D) | <u>48.62</u> |
| DEPTH TO PRODUCT | na |
| PRODUCT THICKNESS | 0 |
| DEPTH TO BOTTOM OF CASING | <u>59.65</u> |
| WATER THICKNESS (h) | <u>11.03</u> |

Groundwater Elevation: TOC-D = 606.08

VOLUME OF WATER TO BE PURGED
 3 Well Volumes: $3 \times 0.17 \times h =$ 5.63

VOLUME OF WATER PURGED FROM WELL: 10 gallons

| TIME | pH | TEMP (E) | DO | Cond | TDS (ppm) | ORP | Turb (NTU) | VOL (gal) | APPEARANCE |
|-------------|-------------|--------------|--------------|-------------|-------------|------------|------------|------------|------------------------------|
| <u>1140</u> | <u>7.42</u> | <u>17.56</u> | <u>10.83</u> | <u>2480</u> | <u>1580</u> | <u>168</u> | <u>—</u> | <u>1</u> | <u>cloudy, no odor/sheen</u> |
| <u>1142</u> | <u>7.45</u> | <u>17.5</u> | <u>7.32</u> | <u>2500</u> | <u>1590</u> | <u>168</u> | <u>271</u> | <u>2.5</u> | <u>clearing</u> |
| <u>1146</u> | <u>7.36</u> | <u>18.19</u> | <u>6.96</u> | <u>2470</u> | <u>1580</u> | <u>171</u> | <u>72</u> | <u>5</u> | <u>clear</u> |
| <u>1150</u> | <u>7.28</u> | <u>18.43</u> | <u>6.71</u> | <u>2450</u> | <u>1570</u> | <u>175</u> | <u>36</u> | <u>7.5</u> | <u>" no odor/sheen</u> |
| <u>1154</u> | <u>7.24</u> | <u>18.52</u> | <u>7.41</u> | <u>2430</u> | <u>1560</u> | <u>177</u> | <u>20</u> | <u>10</u> | <u>"</u> |

TIME SAMPLED COLLECTED: 1154
 DEPTH RECOVERED TO: LOW FLOW
 SAMPLER TYPE: DIRECT DECONT
 SAMPLE CONTAINERS: 3 LVA, 2 Lamber, 1L PLASTIC
 TESTS REQUIRED: 8015, 8260, 8270, 6010
 ANALYTICAL LAB: Analytical Sciences, Petaluma
 COMMENTS: WATER CLEAR WITH SAMPLER,
NO ODR OR SHEEN OBSERVED

MONITORING WELL SAMPLING DATA SHEET

PROJECT NO: 538-0915
 DATE: 1-12-16
 JOB NAME: H6 FACILITY
 JOB ADDRESS: 2467 PATTERSON PASS
 SAMPLED BY: DLB

WELL NO: MW-3
 TOC ELEV: 615.41
 BORING DIAMETER (d): 8"
 WELL CASING DIAMETER: 2"

| DEPTH MEASURED | FEET |
|---------------------------|-------|
| DEPTH TO WATER (D) | 49.12 |
| DEPTH TO PRODUCT | na |
| PRODUCT THICKNESS | 0 |
| DEPTH TO BOTTOM OF CASING | 59.75 |
| WATER THICKNESS (h) | 10.63 |

Groundwater Elevation: TOC-D = 606.29

VOLUME OF WATER TO BE PURGED
 3 Well Volumes: $3 \times 0.17 \times h =$ 5.92

VOLUME OF WATER PURGED FROM WELL: 10 gallons

| TIME | pH | TEMP (F) | DO | Cond | TDS (ppm) | ORP | Turb (NTU) | VOL (gal) | APPEARANCE |
|------|------|----------|-------|------|-----------|-----|------------|-----------|----------------------|
| 1055 | 6.68 | 15.29 | 19.64 | 2620 | 1670 | 193 | — | 1 | CLOUDY, NO ODR/SHEEN |
| 1058 | 7.15 | 15.19 | 14.95 | 2470 | 1710 | 189 | 390 | 2.5 | CLEARING |
| 1101 | 7.2 | 17.12 | 9.33 | 2580 | 1650 | 182 | 148 | 5 | " |
| 1106 | 7.23 | 17.23 | 8.37 | 2540 | 1600 | 175 | 39 | 7.5 | CLEAR, NO ODR/SHEEN |
| 1110 | 7.31 | 17.14 | 6.51 | 2500 | 1620 | 174 | 26 | 10 | " |

TIME SAMPLED COLLECTED: 1110
 DEPTH RECOVERED TO: LOW FLOW
 SAMPLER TYPE: DIRECT DECAANT
 SAMPLE CONTAINERS: 3 VOA, 2 LAMBERT, 1 L PLASTIC
 TESTS REQUIRED: 8015, 8260, 8270, 6010
 ANALYTICAL LAB: Analytical Sciences, Petaluma
 COMMENTS: WATER CLEAR WHEN SAMPLED,
NO ODR OR SHEEN

ANALYTICAL LABORATORY AND QA/QC REPORTS



Date of Report: 01/08/2016

Jennifer Brady

E & B Natural Resources Management Corp.

1600 Norris Road

Bakersfield, CA 93308

Client Project: [none]

BCL Project: GIG

BCL Work Order: 1532856

Invoice ID: B223420

Enclosed are the results of analyses for samples received by the laboratory on 12/22/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Kerrie Vaughan
Client Services

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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| Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)..... | 18 |
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| Total Concentrations (TTLC)..... | 23 |
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| Volatile Organic Analysis (EPA Method 8260B)..... | 24 |
| Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)..... | 27 |
| Total Petroleum Hydrocarbons..... | 31 |
| Total Concentrations (TTLC)..... | 32 |
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| Volatile Organic Analysis (EPA Method 8260B)..... | 33 |
| Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)..... | 36 |
| Total Petroleum Hydrocarbons..... | 40 |
| Total Concentrations (TTLC)..... | 41 |
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| Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)..... | 45 |
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| Total Concentrations (TTLC)..... | 50 |
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| Total Petroleum Hydrocarbons..... | 78 |
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Table listing various analytical methods and their corresponding page numbers, including Total Petroleum Hydrocarbons, Volatile Organic Analysis, and Base Neutral and Acid Extractables Organic Analysis.

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Laboratories, Inc.

Chain of Custody Form

Report To: Client: *E&B Mining Resources* Project #: *016*

Attn: *Jennifer Brady* Project Name:

Street Address: *1600 North Rd*

City, State, Zip: *Bakersfield*

Phone: Fax:

Email Address: *jbrady@bresources.com*

Work Order # *15032856*

Sampler(s): *JA Moore*

Analysis Requested: *CHM 17 metals*

Comments: *Standard T.A.T.*

Page 1 of 2

| Sample # | Description | Date Sampled | Time Sampled | Global ID (Needed for EDF) | EDF Required? Geotracker | Send Copy to State of CA? (EDT) | Relinquished By | Relinquished By | Relinquished By | Received By | Received By | Received By | Date | Date | Date | Time | Time | Time |
|-----------|-------------|--------------|--------------|----------------------------|---|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------|----------|----------|-------|-------|-------|
| B2-50 -1 | | 12/21/15 | 7:05 | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <i>JA Moore</i> | <i>JA Moore</i> | <i>JA Moore</i> | <i>JA Moore</i> | <i>JA Moore</i> | <i>JA Moore</i> | 12/22/15 | 12/22/15 | 12/22/15 | 10:40 | 10:40 | 10:40 |
| B2-10 -2 | | | 7:11 | | | | | | | | | | | | | | | |
| B2-15 -3 | | | 7:15 | | | | | | | | | | | | | | | |
| B2-20 -4 | | | 7:20 | | | | | | | | | | | | | | | |
| B2-25 -5 | | | 7:26 | | | | | | | | | | | | | | | |
| B2-30 -6 | | | 7:32 | | | | | | | | | | | | | | | |
| B2-35 -7 | | | 7:42 | | | | | | | | | | | | | | | |
| B2-40 -8 | | | 7:55 | | | | | | | | | | | | | | | |
| B2-45 -9 | | | 8:00 | | | | | | | | | | | | | | | |
| B2-50 -10 | | | 8:09 | | | | | | | | | | | | | | | |
| B2-55 -11 | | | 8:18 | | | | | | | | | | | | | | | |
| B2-60 -12 | | | 8:27 | | | | | | | | | | | | | | | |

Sample Matrix: Sludge, Drinking Water, Ground Water, Waste Water

Are there any tests with holding times less than or equal to 48 hours? Yes No

* Standard Turnaround = 10 work days

Notes: *CHK BY: DISTRIBUTION*
DO NOT SIGN
SUB-OUT
SHORT HOLDING TIME
CL: NO, NO, OP, SS
DO CL BOD, AMBAS, CAP, IS

Global ID (Needed for EDF): 1. Relinquished By: *JA Moore*, Date: *12/22/15*, Time: *10:40*

EDF Required? Geotracker: Yes No

Send Copy to State of CA? (EDT): Yes No

Global ID (Needed for EDF): 2. Relinquished By: *JA Moore*, Date: *12/22/15*, Time: *18:30*

Global ID (Needed for EDF): 3. Relinquished By: *JA Moore*, Date: *12/22/15*, Time: *18:30*

Global ID (Needed for EDF): 1. Received By: *JA Moore*, Date: *12/22/15*, Time: *10:40*

Global ID (Needed for EDF): 2. Received By: *JA Moore*, Date: *12/22/15*, Time: *18:30*

Global ID (Needed for EDF): 3. Received By: *JA Moore*, Date: *12/22/15*, Time: *18:30*

System # (Needed for EDT):

BC Laboratories, Inc. - 4100 Atlas Ct. - Bakersfield, CA 93308 - 661.327.4911 - Fax: 661.327.1918 - www.bclabs.com

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Chain of Custody Form

Report for: ESB Nuclear Resources
 Client: ESB Nuclear Resources Project #: 616
 Attn: Jennifer Brady Project Name:
 Street Address: Bakersfield
 City, State, Zip: Bakersfield Sampler(s): Jeff Monroe
 Phone: Fax:
 Email Address: jbrady@esbresources.com
 Work Order #: 15-32856

Analysis Requested
 Comments: Standard T.M.T.
 Are there any tests with holding times less than or equal to 48 hours? Yes No
 * Standard Turnaround = 10 work days

| Sample # | Description | Date Sampled | Time Sampled | System # (Needed for EDT) |
|--------------|-------------|--------------|--------------|---------------------------|
| MW-50.5 -13 | | 12/15 | 11:22 | |
| MW-55.5 -14 | | V/V | 11:30 | |
| MW-60.0 -15 | | V/V | 11:40 | |
| BS-65.5 -16 | | 12/22/15 | 7:22 | |
| BS-70.5 -17 | | | 7:28 | |
| BS-75.5 -18 | | | 7:34 | |
| BS-80.5 -19 | | | 7:58 | |
| BS-85.5 -20 | | | 7:59 | |
| BS-90.5 -21 | | | 8:05 | |
| BS-95.5 -22 | | | 8:15 | |
| BS-100.5 -23 | | | 8:24 | |
| BS-105.5 -24 | | | 8:30 | |
| BS-110.5 -25 | | | 8:38 | |
| BS-115.5 -26 | | | 8:38 | |

EDF Required Geotracker Yes No
 Relinquished By: [Signature] Date: 12/22/15 Time: 10:40
 Relinquished By: [Signature] Date: 12/22/15 Time: 18:30
 Relinquished By: [Signature] Date: 12/22/15 Time: 18:30
 System # (Needed for EDT):
 1. Received By: [Signature] Date: 12/22/15 Time: 10:40
 2. Received By: [Signature] Date: 12/22/15 Time: 18:30
 3. Received By: [Signature] Date: 12/22/15 Time: 18:30

Sample Matrix
 Drinking Water
 Ground Water
 Waste Water
 Soil
 Sludge
 Other

Turnaround # of work days
 Notes
 Comments: Standard T.M.T.

Report for: ESB Nuclear Resources
 Client: ESB Nuclear Resources
 Attn: Jennifer Brady
 Street Address: Bakersfield
 City, State, Zip: Bakersfield
 Phone: Fax:
 Email Address: jbrady@esbresources.com
 Work Order #: 15-32856

BC Laboratories, Inc. - 4100 Atlas Ct. - Bakersfield, CA 93308 - 661.327.4911 - Fax: 661.327.1918 - www.bclabs.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 5

Submission #: 15-32856

| | | | | |
|---|--|---|--|--|
| SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____ | | SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____ | | FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> |
|---|--|---|--|--|

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO

Emissivity: 0.9702 Container: Soil Sleeve Thermometer ID: 208-228-1222
 MIB 12/21/15
 Temperature: (A) 1.2 °C / (C) 1.4 °C

Date/Time 12/22/15
 Analyst Init KIB 2511

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|--|----------------|---|---|---|---|---|---|---|---|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz Cr ⁶ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | A | A | A | A | A | A | A | A | A | A |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| TEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: _____

Sample Numbering Completed By: W Date/Time: 12-22-15 1100 Rev 20 07/24/2015

A = Actual / C = Corrected

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREv 20]



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 3

Submission #: 15-32856

SHIPPING INFORMATION
Fed Ex [] UPS [] Ontrac [] Hand Delivery []
BC Lab Field Service [x] Other [] (Specify) _____

SHIPPING CONTAINER
Ice Chest [x] None [] Box []
Other [] (Specify) _____

FREE LIQUID
YES [] NO []

Refrigerant: Ice [x] Blue Ice [] None [] Other [] Comments:

Custody Seals Ice Chest [] Containers [] None [x] Comments:
Intact? Yes [] No [] Intact? Yes [] No []

All samples received? Yes [x] No [] All samples containers intact? Yes [x] No [] Description(s) match COC? Yes [x] No []

COC Received
[x] YES [] NO

Emissivity: 0.9703 Container: Soil Sleeve Thermometer ID: 208
Date/Time 12/22/15
Temperature: (A) 1.2 °C / (C) 1.4 °C Analyst Init KIB 2311

Table with columns for Sample Containers and Sample Numbers (-1 to -10). Rows include various sample types like PE UNPRES, INORGANIC CHEMICAL METALS, etc. SOIL SLEEVE row has 'A' in columns -1 to -10.

Comments:
Sample Numbering Completed By: [Signature] Date/Time: 12-22-15 1106 Rev 20 07/24/2015
A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 3

Submission #: 15-32856

SHIPPING INFORMATION
 Fed Ex UPS Ontrac Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.9102 Container: Soil Sleeve Thermometer ID: 208
K1B 12/21/15 228 12/22
 Temperature: (A) 1.2 °C / (C) 1.4 °C Date/Time 12/22/15
 Analyst Init K1B 2/11

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|--|----------------|------|------|------|------|------|---|---|---|----|
| | - 21 | - 22 | - 23 | - 24 | - 25 | - 26 | 7 | 8 | 9 | 10 |
| QT PE UNPRES | | | | | | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz Cr ⁶ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | | | | | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | | | | | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | | | | | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | | | | | | | | | | |
| 40ml VOA VIAL | | | | | | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 | | | | | | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| QT EPA 8270 | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | A | A | A | A | A | A | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| FEDLAR BAG | | | | | | | | | | |
| FERROUS IRON | | | | | | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: _____
 Sample Numbering Completed By: JK Date/Time: 12-23-15 1106 Rev 20 07/24/2015
 = Actual / C = Corrected IS:\WPDoc\WordPerfect\LAB_DOC\FORMS\SAMREC Rev 20



E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|------------|---------------------------|-------------|-----------------------|------------------|
| 1532856-01 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/21/2015 07:05 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B2-5.0 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| | <hr/> | | | |
| 1532856-02 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/21/2015 07:11 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B2-10.5 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| | <hr/> | | | |
| 1532856-03 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/21/2015 07:15 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B2-15.0 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| | <hr/> | | | |
| 1532856-04 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/21/2015 07:20 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B2-20.0 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| | <hr/> | | | |
| 1532856-05 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/21/2015 07:26 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B2-25.0 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| | <hr/> | | | |
| 1532856-06 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/21/2015 07:32 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B2-30.0 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| | <hr/> | | | |
| 1532856-07 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/21/2015 07:42 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B2-35.0 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| | <hr/> | | | |

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1600 Norris Road
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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|------------|---------------------------|-------------|-----------------------|------------------|
| 1532856-08 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/21/2015 07:55 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B2-40.0 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| 1532856-09 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/21/2015 08:00 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B2-45.0 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| 1532856-10 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/21/2015 08:09 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B2-50.0 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| 1532856-11 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/21/2015 08:18 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B2-55.0 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| 1532856-12 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/21/2015 08:27 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B2-60.5 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| 1532856-13 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/21/2015 11:22 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | MW1-d50.5 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| 1532856-14 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/21/2015 11:30 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | MW1-d55.5 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | Receive Date: | Sampling Date: | Sample Depth: | Lab Matrix: | Sample Type: |
|------------|---------------------------|-------------|------------------|------------------|---------------|-------------|--------------|
| 1532856-15 | COC Number: | --- | 12/22/2015 23:00 | 12/21/2015 11:40 | --- | Solids | Soil |
| | Project Number: | --- | | | | | |
| | Sampling Location: | --- | | | | | |
| | Sampling Point: | MW1-d61.0 | | | | | |
| | Sampled By: | Jeff Monroe | | | | | |
| 1532856-16 | COC Number: | --- | 12/22/2015 23:00 | 12/22/2015 07:22 | --- | Solids | Soil |
| | Project Number: | --- | | | | | |
| | Sampling Location: | --- | | | | | |
| | Sampling Point: | B3-d5.5 | | | | | |
| | Sampled By: | Jeff Monroe | | | | | |
| 1532856-17 | COC Number: | --- | 12/22/2015 23:00 | 12/22/2015 07:28 | --- | Solids | Soil |
| | Project Number: | --- | | | | | |
| | Sampling Location: | --- | | | | | |
| | Sampling Point: | B3-d10.5 | | | | | |
| | Sampled By: | Jeff Monroe | | | | | |
| 1532856-18 | COC Number: | --- | 12/22/2015 23:00 | 12/22/2015 07:31 | --- | Solids | Soil |
| | Project Number: | --- | | | | | |
| | Sampling Location: | --- | | | | | |
| | Sampling Point: | B3-d15.5 | | | | | |
| | Sampled By: | Jeff Monroe | | | | | |
| 1532856-19 | COC Number: | --- | 12/22/2015 23:00 | 12/22/2015 07:40 | --- | Solids | Soil |
| | Project Number: | --- | | | | | |
| | Sampling Location: | --- | | | | | |
| | Sampling Point: | B3-d20.5 | | | | | |
| | Sampled By: | Jeff Monroe | | | | | |
| 1532856-20 | COC Number: | --- | 12/22/2015 23:00 | 12/22/2015 07:50 | --- | Solids | Soil |
| | Project Number: | --- | | | | | |
| | Sampling Location: | --- | | | | | |
| | Sampling Point: | B3-d25.5 | | | | | |
| | Sampled By: | Jeff Monroe | | | | | |
| 1532856-21 | COC Number: | --- | 12/22/2015 23:00 | 12/22/2015 07:59 | --- | Solids | Soil |
| | Project Number: | --- | | | | | |
| | Sampling Location: | --- | | | | | |
| | Sampling Point: | B3-d30.5 | | | | | |
| | Sampled By: | Jeff Monroe | | | | | |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information | | | |
|------------|---------------------------|-------------|-----------------------|------------------|
| 1532856-22 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/22/2015 08:05 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B3-d35.5 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| 1532856-23 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/22/2015 08:15 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B3-d40.5 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| 1532856-24 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/22/2015 08:24 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B3-d45.5 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| 1532856-25 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/22/2015 08:30 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B3-d50.5 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| 1532856-26 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/22/2015 08:38 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B3-d55.5 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |
| 1532856-27 | COC Number: | --- | Receive Date: | 12/22/2015 23:00 |
| | Project Number: | --- | Sampling Date: | 12/22/2015 08:47 |
| | Sampling Location: | --- | Sample Depth: | --- |
| | Sampling Point: | B3-d60.5 | Lab Matrix: | Solids |
| | Sampled By: | Jeff Monroe | Sample Type: | Soil |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1532856-01 **Client Sample Name:** B2-5.0, 12/21/2015 7:05:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-01 | Client Sample Name: B2-5.0, 12/21/2015 7:05:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|---------------------------------------|--------|-------|----------------------|---------|-----------|--------------|-----------|-------|
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 110 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 101 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 103 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-01 | Client Sample Name: B2-5.0, 12/21/2015 7:05:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 12/23/15 | 12/24/15 03:19 | ADC | MS-V2 | 1 | BYL2011 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-01 Client Sample Name: B2-5.0, 12/21/2015 7:05:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-01 | Client Sample Name: B2-5.0, 12/21/2015 7:05:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-01 | Client Sample Name: B2-5.0, 12/21/2015 7:05:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 75.7 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 75.5 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-01 | Client Sample Name: B2-5.0, 12/21/2015 7:05:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 79.6 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 59.8 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 68.3 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 40.1 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 15:45 | VH1 | MS-B1 | 0.977 | BZA0149 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-01 | | Client Sample Name: B2-5.0, 12/21/2015 7:05:00AM, Jeff Monroe | | | | | | |
|---------------------------|--------|---|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 54.6 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/04/16 22:50 | MWB | GC-13 | 1 | BZA0028 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-01 | Client Sample Name: B2-5.0, 12/21/2015 7:05:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 3.6 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 280 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.33 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 17 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 6.5 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 11 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 4.7 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | 0.20 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 21 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | ND | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 24 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 28 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 12:53 | JCC | PE-OP3 | 0.980 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 11:58 | MEV | CETAC1 | 0.992 | BYL2591 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-02 | Client Sample Name: B2-10.5, 12/21/2015 7:11:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-02 | Client Sample Name: B2-10.5, 12/21/2015 7:11:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|---------------------------------------|--------|-------|----------------------|---------|-----------|--------------|-----------|-------|
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 104 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.7 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 103 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-02 | Client Sample Name: B2-10.5, 12/21/2015 7:11:00AM, Jeff Monroe |
|----------------------------------|---|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 03:42 | ADC | MS-V2 | 1 | BYL2011 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-02 Client Sample Name: B2-10.5, 12/21/2015 7:11:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-02 | Client Sample Name: B2-10.5, 12/21/2015 7:11:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-02 | Client Sample Name: B2-10.5, 12/21/2015 7:11:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 84.6 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 83.1 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-02 | Client Sample Name: B2-10.5, 12/21/2015 7:11:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 86.2 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 72.1 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 76.9 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 51.6 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 16:10 | VH1 | MS-B1 | 0.983 | BZA0149 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-02 | Client Sample Name: B2-10.5, 12/21/2015 7:11:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 52.4 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/04/16 19:24 | MWB | GC-13 | 1.014 | BZA0028 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-02 | Client Sample Name: B2-10.5, 12/21/2015 7:11:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 5.3 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 370 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.39 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 18 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 7.6 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 11 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 5.4 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | 0.11 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 20 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.17 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 30 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 31 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-6010B | 12/24/15 | 12/24/15 13:16 | JCC | PE-OP3 | 0.990 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 12:04 | MEV | CETAC1 | 1.008 | BYL2591 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-03 | Client Sample Name: B2-15.0, 12/21/2015 7:15:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various chemical constituents and their analysis results.

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-03 | Client Sample Name: B2-15.0, 12/21/2015 7:15:00AM, Jeff Monroe |
|----------------------------------|---|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 04:04 | ADC | MS-V2 | 1 | BYL2011 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-03 Client Sample Name: B2-15.0, 12/21/2015 7:15:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-03 Client Sample Name: B2-15.0, 12/21/2015 7:15:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-03 **Client Sample Name:** B2-15.0, 12/21/2015 7:15:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 90.7 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 87.1 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-03 | Client Sample Name: B2-15.0, 12/21/2015 7:15:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 88.5 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 87.4 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 79.2 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 66.1 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 16:36 | VH1 | MS-B1 | 1.003 | BZA0149 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-03 | Client Sample Name: B2-15.0, 12/21/2015 7:15:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 54.6 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/04/16 19:47 | MWB | GC-13 | 0.984 | BZA0028 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-03 | Client Sample Name: B2-15.0, 12/21/2015 7:15:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 2.2 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 180 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.16 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 7.3 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 3.7 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 5.6 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 2.9 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | 0.10 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 8.4 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.10 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 16 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 17 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 13:17 | JCC | PE-OP3 | 0.917 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 12:06 | MEV | CETAC1 | 1.025 | BYL2591 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1532856-04 Client Sample Name: B2-20.0, 12/21/2015 7:20:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-04 | | Client Sample Name: B2-20.0, 12/21/2015 7:20:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|--|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 112 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 100 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 101 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-04 | Client Sample Name: B2-20.0, 12/21/2015 7:20:00AM, Jeff Monroe |
|----------------------------------|---|

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 12/23/15 | 12/24/15 04:27 | ADC | MS-V2 | 1 | BYL2011 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-04 Client Sample Name: B2-20.0, 12/21/2015 7:20:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-04 Client Sample Name: B2-20.0, 12/21/2015 7:20:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-04 | Client Sample Name: B2-20.0, 12/21/2015 7:20:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 81.6 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 79.0 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-04 | Client Sample Name: B2-20.0, 12/21/2015 7:20:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 83.2 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 61.0 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 72.2 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 41.0 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 17:01 | VH1 | MS-B1 | 0.964 | BZA0149 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-04 | Client Sample Name: B2-20.0, 12/21/2015 7:20:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 51.4 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/04/16 20:10 | MWB | GC-13 | 0.997 | BZA0028 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

BCL Sample ID: 1532856-04 **Client Sample Name:** B2-20.0, 12/21/2015 7:20:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 3.5 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 350 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.29 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | 0.063 | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | J | 1 |
| Chromium | 15 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 6.1 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 14 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 4.4 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | 0.16 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 16 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.24 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 25 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 30 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-6010B | 12/24/15 | 12/24/15 13:19 | JCC | PE-OP3 | 0.952 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 12:08 | MEV | CETAC1 | 1.025 | BYL2591 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1532856-05 Client Sample Name: B2-25.0, 12/21/2015 7:26:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various chemical constituents and their analysis results.

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-05 | Client Sample Name: B2-25.0, 12/21/2015 7:26:00AM, Jeff Monroe |
|----------------------------------|---|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 04:50 | ADC | MS-V2 | 1 | BYL2011 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-05 Client Sample Name: B2-25.0, 12/21/2015 7:26:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-05 | Client Sample Name: B2-25.0, 12/21/2015 7:26:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-05 | | Client Sample Name: B2-25.0, 12/21/2015 7:26:00AM, Jeff Monroe | | | | | | |
|----------------------------|--------|--|----------------------|--------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 79.8 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 75.9 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-05 | Client Sample Name: B2-25.0, 12/21/2015 7:26:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 80.0 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 73.6 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 70.1 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 52.0 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 17:26 | VH1 | MS-B1 | 1.010 | BZA0149 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-05 | Client Sample Name: B2-25.0, 12/21/2015 7:26:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 55.4 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/04/16 20:33 | MWB | GC-13 | 0.997 | BZA0028 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-05 | Client Sample Name: B2-25.0, 12/21/2015 7:26:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 2.0 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 190 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.20 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 10 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 4.0 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 5.4 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 3.2 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | 0.050 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 10 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.11 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 19 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 14 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 13:20 | JCC | PE-OP3 | 0.943 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 12:10 | MEV | CETAC1 | 1.008 | BYL2591 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-06 | Client Sample Name: B2-30.0, 12/21/2015 7:32:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-06 | | Client Sample Name: B2-30.0, 12/21/2015 7:32:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|--|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 115 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 100 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 104 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-06 | Client Sample Name: B2-30.0, 12/21/2015 7:32:00AM, Jeff Monroe |
|----------------------------------|---|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 05:12 | ADC | MS-V2 | 1 | BYL2011 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-06 Client Sample Name: B2-30.0, 12/21/2015 7:32:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-06 | Client Sample Name: B2-30.0, 12/21/2015 7:32:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-06 | Client Sample Name: B2-30.0, 12/21/2015 7:32:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 86.5 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 83.7 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-06 | Client Sample Name: B2-30.0, 12/21/2015 7:32:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 87.5 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 75.4 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 73.6 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 54.1 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 17:52 | VH1 | MS-B1 | 0.987 | BZA0149 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-06 | Client Sample Name: B2-30.0, 12/21/2015 7:32:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 58.7 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/04/16 20:56 | MWB | GC-13 | 1.003 | BZA0028 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Modified WET Test (STLC)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-06 | Client Sample Name: B2-30.0, 12/21/2015 7:32:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---------------------|--------|-------|------|-------|----------|-------------|-----------|-------|
| Hexavalent Chromium | ND | mg/L | 0.20 | 0.070 | EPA-7196 | 5 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-7196 | 01/06/16 | 01/06/16 14:04 | TDC | KONE-1 | 1 | BZA0427 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

WET Test (STLC)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-06 | Client Sample Name: B2-30.0, 12/21/2015 7:32:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Nickel | 4.5 | mg/L | 0.10 | 0.026 | EPA-6010B | 20 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-6010B | 01/06/16 | 01/07/16 13:45 | JCC | PE-OP3 | 1 | BZA0383 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-06 | Client Sample Name: B2-30.0, 12/21/2015 7:32:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 6.4 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 89 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.18 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 98 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 31 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 30 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 3.1 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | 0.081 | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | J | 2 |
| Molybdenum | ND | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | | 1 |
| Nickel | 280 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.34 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | 0.71 | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | J | 1 |
| Vanadium | 33 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 43 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 13:21 | JCC | PE-OP3 | 0.980 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 12:13 | MEV | CETAC1 | 1.008 | BYL2591 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1532856-07 **Client Sample Name:** B2-35.0, 12/21/2015 7:42:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-07 | | Client Sample Name: B2-35.0, 12/21/2015 7:42:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|--|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 113 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.2 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 104 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-07 | Client Sample Name: B2-35.0, 12/21/2015 7:42:00AM, Jeff Monroe |
|----------------------------------|---|

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 12/23/15 | 12/24/15 05:35 | ADC | MS-V2 | 1 | BYL2281 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-07 Client Sample Name: B2-35.0, 12/21/2015 7:42:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-07 Client Sample Name: B2-35.0, 12/21/2015 7:42:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-07 Client Sample Name: B2-35.0, 12/21/2015 7:42:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 64.5 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 66.0 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-07 | Client Sample Name: B2-35.0, 12/21/2015 7:42:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------------|--------|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Nitrobenzene-d5 (Surrogate) | 63.8 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 52.6 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 56.3 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 46.0 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 18:17 | VH1 | MS-B1 | 0.953 | BZA0149 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-07 | Client Sample Name: B2-35.0, 12/21/2015 7:42:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 51.9 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/04/16 22:27 | MWB | GC-13 | 1.017 | BZA0028 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-07 | Client Sample Name: B2-35.0, 12/21/2015 7:42:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 4.3 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 150 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.49 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | 0.096 | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | J | 1 |
| Chromium | 21 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 7.7 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 12 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 5.7 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | ND | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | | 1 |
| Nickel | 31 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.22 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 29 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 29 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 13:23 | JCC | PE-OP3 | 0.943 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 12:15 | MEV | CETAC1 | 1.008 | BYL2591 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1532856-08 Client Sample Name: B2-40.0, 12/21/2015 7:55:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-08 | | Client Sample Name: B2-40.0, 12/21/2015 7:55:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|--|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 115 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 100 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 107 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1532856-08 **Client Sample Name:** B2-40.0, 12/21/2015 7:55:00AM, Jeff Monroe

| Run # | Method | Prep Date | Run | | Instrument | Dilution | QC |
|-------|-----------|-----------|----------------|---------|------------|----------|----------|
| | | | Date/Time | Analyst | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 05:58 | ADC | MS-V2 | 1 | BYL2281 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-08 **Client Sample Name:** B2-40.0, 12/21/2015 7:55:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-08 | Client Sample Name: B2-40.0, 12/21/2015 7:55:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-08 | Client Sample Name: B2-40.0, 12/21/2015 7:55:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 72.9 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 73.2 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-08 | | Client Sample Name: B2-40.0, 12/21/2015 7:55:00AM, Jeff Monroe | | | | | | |
|----------------------------------|--------|--|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 73.4 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 63.9 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 61.5 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 51.3 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 18:43 | VH1 | MS-B1 | 0.984 | BZA0149 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-08 | Client Sample Name: B2-40.0, 12/21/2015 7:55:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 48.5 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/04/16 19:01 | MWB | GC-13 | 0.984 | BZA0028 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-08 | Client Sample Name: B2-40.0, 12/21/2015 7:55:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 5.3 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 130 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.43 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 17 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 8.3 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 11 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 5.7 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | 0.093 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 27 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.13 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 32 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 28 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 13:24 | JCC | PE-OP3 | 0.971 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 12:17 | MEV | CETAC1 | 0.977 | BYL2591 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1532856-09 Client Sample Name: B2-45.0, 12/21/2015 8:00:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-09 | | Client Sample Name: B2-45.0, 12/21/2015 8:00:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|--|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 121 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 103 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 105 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-09 | Client Sample Name: B2-45.0, 12/21/2015 8:00:00AM, Jeff Monroe |
|----------------------------------|---|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 06:21 | ADC | MS-V2 | 1 | BYL2281 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-09 Client Sample Name: B2-45.0, 12/21/2015 8:00:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-09 Client Sample Name: B2-45.0, 12/21/2015 8:00:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-09 Client Sample Name: B2-45.0, 12/21/2015 8:00:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 60.8 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 63.2 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-09 | Client Sample Name: B2-45.0, 12/21/2015 8:00:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 64.3 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 44.7 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 53.2 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 46.4 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 19:08 | VH1 | MS-B1 | 0.967 | BZA0149 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-09 | Client Sample Name: B2-45.0, 12/21/2015 8:00:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 49.2 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/04/16 23:13 | MWB | GC-13 | 1.010 | BZA0028 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-09 | Client Sample Name: B2-45.0, 12/21/2015 8:00:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 2.7 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 96 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.49 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 23 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 6.1 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 11 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 5.3 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | ND | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | | 1 |
| Nickel | 18 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.15 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 23 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 29 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 13:26 | JCC | PE-OP3 | 0.990 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 12:19 | MEV | CETAC1 | 1.008 | BYL2591 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1532856-10 Client Sample Name: B2-50.0, 12/21/2015 8:09:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-10 | | Client Sample Name: B2-50.0, 12/21/2015 8:09:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|--|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 120 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.7 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 101 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-10 | Client Sample Name: B2-50.0, 12/21/2015 8:09:00AM, Jeff Monroe |
|----------------------------------|---|

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 12/23/15 | 12/24/15 06:44 | ADC | MS-V2 | 1 | BYL2281 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-10 **Client Sample Name:** B2-50.0, 12/21/2015 8:09:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-10 Client Sample Name: B2-50.0, 12/21/2015 8:09:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-10 | Client Sample Name: B2-50.0, 12/21/2015 8:09:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 76.3 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 79.0 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-10 | Client Sample Name: B2-50.0, 12/21/2015 8:09:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 75.6 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 56.1 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 68.4 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 49.1 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 19:33 | VH1 | MS-B1 | 0.997 | BZA0149 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-10 | Client Sample Name: B2-50.0, 12/21/2015 8:09:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 60.2 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/04/16 23:36 | MWB | GC-13 | 1.010 | BZA0028 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-10 | Client Sample Name: B2-50.0, 12/21/2015 8:09:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 3.6 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 50 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.35 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 19 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 6.1 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 14 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 4.0 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | 0.16 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 20 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.17 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 25 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 26 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 13:34 | JCC | PE-OP3 | 1 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 12:21 | MEV | CETAC1 | 1.025 | BYL2591 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1532856-11 **Client Sample Name:** B2-55.0, 12/21/2015 8:18:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-11 | | Client Sample Name: B2-55.0, 12/21/2015 8:18:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|--|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 121 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 97.1 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 109 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-11 | Client Sample Name: B2-55.0, 12/21/2015 8:18:00AM, Jeff Monroe |
|----------------------------------|---|

| Run # | Method | Prep Date | Run | | Instrument | Dilution | QC |
|-------|-----------|-----------|----------------|---------|------------|----------|----------|
| | | | Date/Time | Analyst | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 07:07 | ADC | MS-V2 | 1 | BYL2281 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-11 Client Sample Name: B2-55.0, 12/21/2015 8:18:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-11 Client Sample Name: B2-55.0, 12/21/2015 8:18:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-11 | Client Sample Name: B2-55.0, 12/21/2015 8:18:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 71.6 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 71.0 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-11 | Client Sample Name: B2-55.0, 12/21/2015 8:18:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 66.6 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 42.1 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 58.0 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 46.4 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 19:59 | VH1 | MS-B1 | 0.963 | BZA0149 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-11 | Client Sample Name: B2-55.0, 12/21/2015 8:18:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 63.5 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/04/16 23:58 | MWB | GC-13 | 1.007 | BZA0028 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-11 | Client Sample Name: B2-55.0, 12/21/2015 8:18:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 4.2 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 61 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.27 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 22 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 5.4 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 13 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 3.7 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | 0.064 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 20 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.23 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 30 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 32 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 13:35 | JCC | PE-OP3 | 0.952 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 12:24 | MEV | CETAC1 | 0.992 | BYL2591 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-12 | Client Sample Name: B2-60.5, 12/21/2015 8:27:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-12 | | Client Sample Name: B2-60.5, 12/21/2015 8:27:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|--|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 107 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 95.3 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 103 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-12 | Client Sample Name: B2-60.5, 12/21/2015 8:27:00AM, Jeff Monroe |
|----------------------------------|---|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 07:30 | ADC | MS-V2 | 1 | BYL2281 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-12 Client Sample Name: B2-60.5, 12/21/2015 8:27:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-12 Client Sample Name: B2-60.5, 12/21/2015 8:27:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-12 | Client Sample Name: B2-60.5, 12/21/2015 8:27:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 90.6 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 90.8 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-12 | Client Sample Name: B2-60.5, 12/21/2015 8:27:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 93.4 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 78.2 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 82.4 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 60.7 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 20:24 | VH1 | MS-B1 | 0.983 | BZA0149 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-12 | Client Sample Name: B2-60.5, 12/21/2015 8:27:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 57.2 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/05/16 00:21 | MWB | GC-13 | 0.993 | BZA0028 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-12 | Client Sample Name: B2-60.5, 12/21/2015 8:27:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 3.7 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 24 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.25 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 30 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 6.5 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 13 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 3.3 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | 0.061 | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | J | 2 |
| Molybdenum | 0.11 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 35 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.26 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 20 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 24 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 13:36 | JCC | PE-OP3 | 0.952 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 12:30 | MEV | CETAC1 | 1.008 | BYL2591 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-13 | Client Sample Name: MW1-d50.5, 12/21/2015 11:22:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|-------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-13 | | Client Sample Name: MW1-d50.5, 12/21/2015 11:22:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|---|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 112 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.6 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 99.0 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-13 | Client Sample Name: MW1-d50.5, 12/21/2015 11:22:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 14:05 | ADC | MS-V2 | 1 | BYL2281 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-13 Client Sample Name: MW1-d50.5, 12/21/2015 11:22:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-13 | Client Sample Name: MW1-d50.5, 12/21/2015 11:22:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-13 | Client Sample Name: MW1-d50.5, 12/21/2015 11:22:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 55.2 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 56.5 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-13 | Client Sample Name: MW1-d50.5, 12/21/2015 11:22:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 54.6 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 41.0 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 47.5 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 37.4 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 20:50 | VH1 | MS-B1 | 0.984 | BZA0149 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-13 | Client Sample Name: MW1-d50.5, 12/21/2015 11:22:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 62.5 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/05/16 00:44 | MWB | GC-13 | 1.010 | BZA0028 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-13 | Client Sample Name: MW1-d50.5, 12/21/2015 11:22:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 3.1 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 40 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.30 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 17 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 7.2 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 9.8 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 4.4 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | 0.039 | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | J | 2 |
| Molybdenum | 0.30 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 18 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.21 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 31 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 22 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-6010B | 12/24/15 | 12/24/15 13:38 | JCC | PE-OP3 | 0.935 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 12:32 | MEV | CETAC1 | 0.977 | BYL2591 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-14 | Client Sample Name: MW1-d55.5, 12/21/2015 11:30:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-14 | | Client Sample Name: MW1-d55.5, 12/21/2015 11:30:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|---|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 112 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.2 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 100 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-14 | Client Sample Name: MW1-d55.5, 12/21/2015 11:30:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 14:28 | ADC | MS-V2 | 1 | BYL2281 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-14 Client Sample Name: MW1-d55.5, 12/21/2015 11:30:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-14 | Client Sample Name: MW1-d55.5, 12/21/2015 11:30:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-14 | | Client Sample Name: MW1-d55.5, 12/21/2015 11:30:00AM, Jeff Monroe | | | | | | |
|----------------------------|--------|---|----------------------|--------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 57.9 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 61.9 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-14 | Client Sample Name: MW1-d55.5, 12/21/2015 11:30:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 56.0 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 39.3 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 58.0 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 44.7 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 21:15 | VH1 | MS-B1 | 0.950 | BZA0149 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-14 | Client Sample Name: MW1-d55.5, 12/21/2015 11:30:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 53.3 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/05/16 01:06 | MWB | GC-13 | 1.010 | BZA0028 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-14 | Client Sample Name: MW1-d55.5, 12/21/2015 11:30:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 5.4 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 31 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.30 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 37 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 11 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 22 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 5.2 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | 0.16 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 88 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.24 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 29 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 36 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 13:39 | JCC | PE-OP3 | 0.943 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 12:34 | MEV | CETAC1 | 0.992 | BYL2591 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-15 | Client Sample Name: MW1-d61.0, 12/21/2015 11:40:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|-------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-15 | | Client Sample Name: MW1-d61.0, 12/21/2015 11:40:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|---|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 113 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.9 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 102 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-15 | Client Sample Name: MW1-d61.0, 12/21/2015 11:40:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 14:50 | ADC | MS-V2 | 1 | BYL2281 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-15 Client Sample Name: MW1-d61.0, 12/21/2015 11:40:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-15 | Client Sample Name: MW1-d61.0, 12/21/2015 11:40:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-15 | | Client Sample Name: MW1-d61.0, 12/21/2015 11:40:00AM, Jeff Monroe | | | | | | |
|----------------------------|--------|---|----------------------|--------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 74.8 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 78.0 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-15 | Client Sample Name: MW1-d61.0, 12/21/2015 11:40:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 74.4 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 58.9 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 66.3 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 47.5 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 21:40 | VH1 | MS-B1 | 0.976 | BZA0149 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-15 | Client Sample Name: MW1-d61.0, 12/21/2015 11:40:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 55.5 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/05/16 01:29 | MWB | GC-13 | 0.993 | BZA0028 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-15 | Client Sample Name: MW1-d61.0, 12/21/2015 11:40:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 5.5 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 20 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.23 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 43 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 13 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 19 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 6.2 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | 0.041 | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | J | 2 |
| Molybdenum | ND | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | | 1 |
| Nickel | 94 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.30 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | 0.96 | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | J | 1 |
| Vanadium | 27 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 34 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 13:41 | JCC | PE-OP3 | 1 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 12:36 | MEV | CETAC1 | 1.008 | BYL2591 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1532856-16 Client Sample Name: B3-d5.5, 12/22/2015 7:22:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-16 | | Client Sample Name: B3-d5.5, 12/22/2015 7:22:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|--|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 117 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 101 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 99.4 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-16 | Client Sample Name: B3-d5.5, 12/22/2015 7:22:00AM, Jeff Monroe |
|----------------------------------|---|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/28/15 | 10:14 | ADC | MS-V2 | 1 | BYL2281 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-16 **Client Sample Name:** B3-d5.5, 12/22/2015 7:22:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-16 **Client Sample Name:** B3-d5.5, 12/22/2015 7:22:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-16 | Client Sample Name: B3-d5.5, 12/22/2015 7:22:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 70.2 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 72.1 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-16 | Client Sample Name: B3-d5.5, 12/22/2015 7:22:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 71.1 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 57.9 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 60.2 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 39.8 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 22:06 | VH1 | MS-B1 | 0.960 | BZA0149 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-16 | Client Sample Name: B3-d5.5, 12/22/2015 7:22:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|---|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 46.8 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/05/16 01:52 | MWB | GC-13 | 1.017 | BZA0028 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|---|
| BCL Sample ID: 1532856-16 | Client Sample Name: B3-d5.5, 12/22/2015 7:22:00AM, Jeff Monroe |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 4.2 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 230 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.37 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 21 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 8.0 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 9.2 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 5.0 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | ND | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | | 1 |
| Nickel | 27 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.087 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 27 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 28 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-6010B | 12/24/15 | 12/24/15 13:42 | JCC | PE-OP3 | 0.990 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 12:39 | MEV | CETAC1 | 1.008 | BYL2591 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-17 | Client Sample Name: B3-d10.5, 12/22/2015 7:28:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-17 | | Client Sample Name: B3-d10.5, 12/22/2015 7:28:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|---|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 114 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 98.1 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 98.9 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-17 | Client Sample Name: B3-d10.5, 12/22/2015 7:28:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 15:35 | ADC | MS-V2 | 1 | BYL2281 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-17 **Client Sample Name:** B3-d10.5, 12/22/2015 7:28:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-17 | Client Sample Name: B3-d10.5, 12/22/2015 7:28:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-17 | Client Sample Name: B3-d10.5, 12/22/2015 7:28:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 58.7 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 64.8 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-17 | Client Sample Name: B3-d10.5, 12/22/2015 7:28:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 64.8 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 57.7 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 58.6 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 43.5 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 22:31 | VH1 | MS-B1 | 0.993 | BZA0149 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-17 | Client Sample Name: B3-d10.5, 12/22/2015 7:28:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 55.5 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/05/16 05:41 | MWB | GC-13 | 0.993 | BZA0028 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-17 | Client Sample Name: B3-d10.5, 12/22/2015 7:28:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 4.2 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 460 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.39 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 22 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 6.4 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 13 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 4.6 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | ND | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | | 1 |
| Nickel | 22 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.19 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 32 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 33 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-6010B | 12/24/15 | 12/24/15 13:44 | JCC | PE-OP3 | 0.962 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 12:41 | MEV | CETAC1 | 0.977 | BYL2591 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1532856-18 **Client Sample Name:** B3-d15.5, 12/22/2015 7:31:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-18 | | Client Sample Name: B3-d15.5, 12/22/2015 7:31:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|---|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 109 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 101 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 102 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-18 | Client Sample Name: B3-d15.5, 12/22/2015 7:31:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 12/23/15 | 12/24/15 15:58 | ADC | MS-V2 | 1 | BYL2281 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-18 Client Sample Name: B3-d15.5, 12/22/2015 7:31:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTL Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|---------------|--------------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-18 Client Sample Name: B3-d15.5, 12/22/2015 7:31:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-18 | Client Sample Name: B3-d15.5, 12/22/2015 7:31:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 65.5 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 66.1 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-18 | Client Sample Name: B3-d15.5, 12/22/2015 7:31:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------------|--------|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Nitrobenzene-d5 (Surrogate) | 72.8 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 60.6 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 55.6 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 44.3 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 22:57 | VH1 | MS-B1 | 1.003 | BZA0149 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-18 | Client Sample Name: B3-d15.5, 12/22/2015 7:31:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 54.6 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/05/16 06:04 | MWB | GC-13 | 1.017 | BZA0028 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| BCL Sample ID: 1532856-18 | | Client Sample Name: B3-d15.5, 12/22/2015 7:31:00AM, Jeff Monroe | | | | | | |
|---------------------------|--------|---|------|-------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 3.3 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 220 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.29 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 17 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 6.3 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 8.1 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 3.9 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | ND | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | | 1 |
| Nickel | 19 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.15 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 24 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 26 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 13:52 | JCC | PE-OP3 | 0.990 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 13:03 | MEV | CETAC1 | 0.977 | BYL2592 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-19 | Client Sample Name: B3-d20.5, 12/22/2015 7:40:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-19 | | Client Sample Name: B3-d20.5, 12/22/2015 7:40:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|---|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 114 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 97.9 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 103 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-19 | Client Sample Name: B3-d20.5, 12/22/2015 7:40:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 16:21 | ADC | MS-V2 | 1 | BYL2281 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-19 **Client Sample Name:** B3-d20.5, 12/22/2015 7:40:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-19 | Client Sample Name: B3-d20.5, 12/22/2015 7:40:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-19 | Client Sample Name: B3-d20.5, 12/22/2015 7:40:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|-------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 83.9 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 82.1 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-19 | Client Sample Name: B3-d20.5, 12/22/2015 7:40:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 85.4 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 69.5 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 73.9 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 48.8 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 23:22 | VH1 | MS-B1 | 1.010 | BZA0149 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-19 | Client Sample Name: B3-d20.5, 12/22/2015 7:40:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 58.1 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/05/16 06:26 | MWB | GC-13 | 0.993 | BZA0028 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-19 | Client Sample Name: B3-d20.5, 12/22/2015 7:40:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 4.1 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 170 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.48 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 19 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 10 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 12 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 6.6 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | ND | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | | 1 |
| Nickel | 25 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.097 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 28 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 29 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 13:53 | JCC | PE-OP3 | 0.980 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 12:52 | MEV | CETAC1 | 1.008 | BYL2592 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-20 | Client Sample Name: B3-d25.5, 12/22/2015 7:50:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-20 | | Client Sample Name: B3-d25.5, 12/22/2015 7:50:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|---|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 119 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 100 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 104 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-20 | Client Sample Name: B3-d25.5, 12/22/2015 7:50:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 16:44 | ADC | MS-V2 | 1 | BYL2281 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-20 Client Sample Name: B3-d25.5, 12/22/2015 7:50:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-20 Client Sample Name: B3-d25.5, 12/22/2015 7:50:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-20 | Client Sample Name: B3-d25.5, 12/22/2015 7:50:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 69.1 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 74.5 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-20 | Client Sample Name: B3-d25.5, 12/22/2015 7:50:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 76.0 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 62.2 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 56.7 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 48.7 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 01/05/16 23:47 | VH1 | MS-B1 | 0.993 | BZA0149 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-20 | Client Sample Name: B3-d25.5, 12/22/2015 7:50:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 59.1 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 01/05/16 06:49 | MWB | GC-13 | 1.003 | BZA0028 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-20 | Client Sample Name: B3-d25.5, 12/22/2015 7:50:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 4.7 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 110 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.39 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 33 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 13 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 18 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 6.1 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | 0.053 | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | J | 2 |
| Molybdenum | 0.12 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 65 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.21 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | 0.94 | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | J | 1 |
| Vanadium | 31 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 36 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 12:44 | JCC | PE-OP3 | 1 | BYL2346 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 13:05 | MEV | CETAC1 | 1.025 | BYL2592 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1532856-21 Client Sample Name: B3-d30.5, 12/22/2015 7:59:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-21 | | Client Sample Name: B3-d30.5, 12/22/2015 7:59:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|---|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 117 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.3 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 102 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-21 | Client Sample Name: B3-d30.5, 12/22/2015 7:59:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 17:06 | ADC | MS-V2 | 1 | BYL2281 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-21 Client Sample Name: B3-d30.5, 12/22/2015 7:59:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-21 | Client Sample Name: B3-d30.5, 12/22/2015 7:59:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-21 | Client Sample Name: B3-d30.5, 12/22/2015 7:59:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 71.5 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 73.2 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-21 | Client Sample Name: B3-d30.5, 12/22/2015 7:59:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 76.7 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 65.2 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 64.3 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 56.7 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 12/30/15 16:05 | VH1 | MS-B2 | 0.997 | BYL2622 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-21 | Client Sample Name: B3-d30.5, 12/22/2015 7:59:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 53.8 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 12/30/15 11:11 | MWB | GC-13 | 0.990 | BYL2593 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Modified WET Test (STLC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-21 | Client Sample Name: B3-d30.5, 12/22/2015 7:59:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | STLC Limits | Lab Quals | Run # |
|---------------------|--------|-------|------|-------|----------|-------------|-----------|-------|
| Hexavalent Chromium | ND | mg/L | 0.20 | 0.070 | EPA-7196 | 5 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-7196 | 01/06/16 | 01/06/16 14:04 | TDC | KONE-1 | 1 | BZA0427 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-21 | Client Sample Name: B3-d30.5, 12/22/2015 7:59:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 4.9 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 86 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.28 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 65 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 15 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 24 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 5.3 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | 0.060 | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | J | 2 |
| Molybdenum | ND | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | | 1 |
| Nickel | 170 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.32 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | 1.1 | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | J | 1 |
| Vanadium | 30 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 42 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Instrument | Dilution | QC |
|-------|-----------|-----------|----------------|---------|------------|----------|----------|
| | | | Date/Time | Analyst | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 14:05 | JCC | PE-OP3 | 1 | BYL2347 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 13:07 | MEV | CETAC1 | 1.008 | BYL2592 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-22 | Client Sample Name: B3-d35.5, 12/22/2015 8:05:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-22 | | Client Sample Name: B3-d35.5, 12/22/2015 8:05:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|---|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 119 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 101 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 101 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-22 | Client Sample Name: B3-d35.5, 12/22/2015 8:05:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 17:29 | ADC | MS-V2 | 1 | BYL2281 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-22 Client Sample Name: B3-d35.5, 12/22/2015 8:05:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-22 Client Sample Name: B3-d35.5, 12/22/2015 8:05:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-22 | Client Sample Name: B3-d35.5, 12/22/2015 8:05:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 58.3 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 64.1 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-22 | Client Sample Name: B3-d35.5, 12/22/2015 8:05:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 67.9 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 56.5 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 54.0 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 50.1 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 12/30/15 16:30 | VH1 | MS-B2 | 0.970 | BYL2622 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-22 | Client Sample Name: B3-d35.5, 12/22/2015 8:05:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 51.6 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 12/30/15 11:34 | MWB | GC-13 | 0.997 | BYL2593 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-22 | Client Sample Name: B3-d35.5, 12/22/2015 8:05:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 3.6 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 100 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.33 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 14 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 9.6 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 11 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 6.2 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | 0.43 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 52 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.17 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 25 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 22 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Instrument | Dilution | QC |
|-------|-----------|-----------|----------------|---------|------------|----------|----------|
| | | | Date/Time | Analyst | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 14:13 | JCC | PE-OP3 | 0.971 | BYL2347 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 13:13 | MEV | CETAC1 | 1.025 | BYL2592 |

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Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1532856-23 **Client Sample Name:** B3-d40.5, 12/22/2015 8:15:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| BCL Sample ID: 1532856-23 | | Client Sample Name: B3-d40.5, 12/22/2015 8:15:00AM, Jeff Monroe | | | | | | |
|---------------------------------------|--------|---|----------------------|---------|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 113 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 101 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 103 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-23 | Client Sample Name: B3-d40.5, 12/22/2015 8:15:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 17:51 | ADC | MS-V2 | 1 | BYL2281 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-23 Client Sample Name: B3-d40.5, 12/22/2015 8:15:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-23 **Client Sample Name:** B3-d40.5, 12/22/2015 8:15:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-23 | Client Sample Name: B3-d40.5, 12/22/2015 8:15:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 54.0 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 58.7 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-23 | Client Sample Name: B3-d40.5, 12/22/2015 8:15:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 59.6 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 53.4 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 48.6 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 46.8 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 12/30/15 16:55 | VH1 | MS-B2 | 0.987 | BYL2622 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-23 | Client Sample Name: B3-d40.5, 12/22/2015 8:15:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 53.9 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 12/30/15 11:56 | MWB | GC-13 | 0.990 | BYL2593 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-23 | Client Sample Name: B3-d40.5, 12/22/2015 8:15:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 2.7 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 76 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.51 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 23 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 9.2 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 12 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 6.8 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | 0.038 | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | J | 2 |
| Molybdenum | 0.14 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 35 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.21 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 24 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 31 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-6010B | 12/24/15 | 12/24/15 14:21 | JCC | PE-OP3 | 0.971 | BYL2347 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 13:16 | MEV | CETAC1 | 0.977 | BYL2592 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-24 | Client Sample Name: B3-d45.5, 12/22/2015 8:24:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-24 | Client Sample Name: B3-d45.5, 12/22/2015 8:24:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|---------------------------------------|--------|-------|----------------------|---------|-----------|--------------|-----------|-------|
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 118 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 104 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 100 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-24 | Client Sample Name: B3-d45.5, 12/22/2015 8:24:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 18:14 | ADC | MS-V2 | 1 | BYL2281 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-24 **Client Sample Name:** B3-d45.5, 12/22/2015 8:24:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-24 | Client Sample Name: B3-d45.5, 12/22/2015 8:24:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-24 **Client Sample Name:** B3-d45.5, 12/22/2015 8:24:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 56.1 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 58.7 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-24 | Client Sample Name: B3-d45.5, 12/22/2015 8:24:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 60.0 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 50.6 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 47.0 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 49.6 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 12/30/15 17:19 | VH1 | MS-B2 | 0.987 | BYL2622 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-24 | Client Sample Name: B3-d45.5, 12/22/2015 8:24:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 50.5 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 12/30/15 12:19 | MWB | GC-13 | 0.997 | BYL2593 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-24 | Client Sample Name: B3-d45.5, 12/22/2015 8:24:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 3.6 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 190 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.44 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | 0.081 | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | J | 1 |
| Chromium | 21 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 7.9 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 12 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 5.5 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | 0.087 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 27 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.23 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 28 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 29 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 14:23 | JCC | PE-OP3 | 0.917 | BYL2347 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 13:18 | MEV | CETAC1 | 0.992 | BYL2592 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-25 | Client Sample Name: B3-d50.5, 12/22/2015 8:30:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|-------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-25 | Client Sample Name: B3-d50.5, 12/22/2015 8:30:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|---------------------------------------|--------|-------|----------------------|---------|-----------|--------------|-----------|-------|
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 114 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 102 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 102 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-25 | Client Sample Name: B3-d50.5, 12/22/2015 8:30:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 18:37 | ADC | MS-V2 | 1 | BYL2281 |

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Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-25 Client Sample Name: B3-d50.5, 12/22/2015 8:30:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-25 | Client Sample Name: B3-d50.5, 12/22/2015 8:30:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-25 **Client Sample Name:** B3-d50.5, 12/22/2015 8:30:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 56.1 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 58.3 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-25 | Client Sample Name: B3-d50.5, 12/22/2015 8:30:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 59.0 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 39.4 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 49.8 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 53.0 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 12/30/15 17:44 | VH1 | MS-B2 | 1.010 | BYL2622 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-25 | Client Sample Name: B3-d50.5, 12/22/2015 8:30:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 53.6 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 12/30/15 12:42 | MWB | GC-13 | 0.984 | BYL2593 |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-25 | Client Sample Name: B3-d50.5, 12/22/2015 8:30:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 5.1 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 110 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.38 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 19 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 7.8 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 11 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 4.5 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | ND | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | | 2 |
| Molybdenum | 0.20 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 26 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.20 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 35 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 28 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-6010B | 12/24/15 | 12/24/15 14:24 | JCC | PE-OP3 | 0.935 | BYL2347 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 13:20 | MEV | CETAC1 | 1.008 | BYL2592 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-26 | Client Sample Name: B3-d55.5, 12/22/2015 8:38:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-26 | Client Sample Name: B3-d55.5, 12/22/2015 8:38:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|---------------------------------------|--------|-------|----------------------|---------|-----------|--------------|-----------|-------|
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 115 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 103 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 104 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-26 | Client Sample Name: B3-d55.5, 12/22/2015 8:38:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-8260B | 12/23/15 | 12/24/15 | 18:59 | ADC | MS-V2 | 1 | BYL2307 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-26 | Client Sample Name: B3-d55.5, 12/22/2015 8:38:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-26 Client Sample Name: B3-d55.5, 12/22/2015 8:38:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-26 | Client Sample Name: B3-d55.5, 12/22/2015 8:38:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|--------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 64.3 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 62.4 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-26 | Client Sample Name: B3-d55.5, 12/22/2015 8:38:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 66.2 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 42.1 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 47.0 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 59.6 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 12/30/15 18:09 | VH1 | MS-B2 | 0.958 | BYL2622 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-26 | Client Sample Name: B3-d55.5, 12/22/2015 8:38:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 58.9 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 12/30/15 13:05 | MWB | GC-13 | 0.987 | BYL2593 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-26 | Client Sample Name: B3-d55.5, 12/22/2015 8:38:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 8.2 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 38 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.26 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 10 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 5.6 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 14 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 3.6 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | 0.082 | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | J | 2 |
| Molybdenum | 0.60 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 14 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.22 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | ND | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | | 1 |
| Vanadium | 28 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 28 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Instrument | Dilution | QC |
|-------|-----------|-----------|----------------|---------|------------|----------|----------|
| | | | Date/Time | Analyst | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 14:25 | JCC | PE-OP3 | 0.952 | BYL2347 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 13:22 | MEV | CETAC1 | 1.008 | BYL2592 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1532856-27 Client Sample Name: B3-d60.5, 12/22/2015 8:47:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-----------------------------|--------|-------|--------|---------|-----------|--------------|-----------|-------|
| Benzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Bromochloromethane | ND | mg/kg | 0.0050 | 0.00092 | EPA-8260B | | | 1 |
| Bromodichloromethane | ND | mg/kg | 0.0050 | 0.00084 | EPA-8260B | | | 1 |
| Bromoform | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Bromomethane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| n-Butylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| sec-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| tert-Butylbenzene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Carbon tetrachloride | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Chlorobenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Chloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Chloroform | ND | mg/kg | 0.0050 | 0.00063 | EPA-8260B | | | 1 |
| Chloromethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 2-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 4-Chlorotoluene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| Dibromochloromethane | ND | mg/kg | 0.0050 | 0.00099 | EPA-8260B | | | 1 |
| 1,2-Dibromo-3-chloropropane | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| 1,2-Dibromoethane | ND | mg/kg | 0.0050 | 0.0010 | EPA-8260B | | | 1 |
| Dibromomethane | ND | mg/kg | 0.0050 | 0.0018 | EPA-8260B | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Dichlorodifluoromethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00085 | EPA-8260B | | | 1 |
| 1,1-Dichloroethene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.00081 | EPA-8260B | | | 1 |
| 1,3-Dichloropropane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 2,2-Dichloropropane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,1-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-27 | Client Sample Name: B3-d60.5, 12/22/2015 8:47:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|---------------------------------------|--------|-------|----------------------|---------|-----------|--------------|-----------|-------|
| cis-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| trans-1,3-Dichloropropene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| Ethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.0050 | 0.0017 | EPA-8260B | | | 1 |
| Isopropylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| p-Isopropyltoluene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Methylene chloride | ND | mg/kg | 0.010 | 0.0024 | EPA-8260B | | | 1 |
| Methyl t-butyl ether | ND | mg/kg | 0.0050 | 0.00050 | EPA-8260B | | | 1 |
| Naphthalene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| n-Propylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Styrene | ND | mg/kg | 0.0050 | 0.0014 | EPA-8260B | | | 1 |
| 1,1,1,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2,2-Tetrachloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| Toluene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2,3-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0021 | EPA-8260B | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.0050 | 0.0020 | EPA-8260B | | | 1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,1,2-Trichloroethane | ND | mg/kg | 0.0050 | 0.00077 | EPA-8260B | | | 1 |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | 2040 | | 1 |
| Trichlorofluoromethane | ND | mg/kg | 0.0050 | 0.0011 | EPA-8260B | | | 1 |
| 1,2,3-Trichloropropane | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0013 | EPA-8260B | | | 1 |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0050 | 0.0015 | EPA-8260B | | | 1 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0016 | EPA-8260B | | | 1 |
| Total Xylenes | ND | mg/kg | 0.010 | 0.0034 | EPA-8260B | | | 1 |
| p- & m-Xylenes | ND | mg/kg | 0.0050 | 0.0022 | EPA-8260B | | | 1 |
| o-Xylene | ND | mg/kg | 0.0050 | 0.0012 | EPA-8260B | | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 113 | % | 70 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 98.9 | % | 81 - 117 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 102 | % | 74 - 121 (LCL - UCL) | | EPA-8260B | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-27 | Client Sample Name: B3-d60.5, 12/22/2015 8:47:00AM, Jeff Monroe |
|----------------------------------|--|

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 12/23/15 | 12/24/15 19:22 | ADC | MS-V2 | 1 | BYL2307 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-27 **Client Sample Name:** B3-d60.5, 12/22/2015 8:47:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLT Limits | Lab Quals | Run # |
|------------------------------|--------|-------|------|-------|-----------|-------------|-----------|-------|
| Acenaphthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Acenaphthylene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Aldrin | ND | mg/kg | 0.10 | 0.024 | EPA-8270C | 1.4 | | 1 |
| Aniline | ND | mg/kg | 0.20 | 0.053 | EPA-8270C | | | 1 |
| Anthracene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzidine | ND | mg/kg | 3.0 | 0.22 | EPA-8270C | | | 1 |
| Benzo[a]anthracene | ND | mg/kg | 0.10 | 0.012 | EPA-8270C | | | 1 |
| Benzo[b]fluoranthene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzo[k]fluoranthene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Benzo[a]pyrene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Benzo[g,h,i]perylene | ND | mg/kg | 0.10 | 0.056 | EPA-8270C | | | 1 |
| Benzoic acid | ND | mg/kg | 0.50 | 0.067 | EPA-8270C | | | 1 |
| Benzyl alcohol | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Benzyl butyl phthalate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| alpha-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| beta-BHC | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| delta-BHC | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| gamma-BHC (Lindane) | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 4.0 | | 1 |
| bis(2-Chloroethoxy)methane | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| bis(2-Chloroethyl) ether | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| bis(2-Chloroisopropyl) ether | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| bis(2-Ethylhexyl)phthalate | ND | mg/kg | 0.20 | 0.043 | EPA-8270C | | | 1 |
| 4-Bromophenyl phenyl ether | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4-Chloroaniline | ND | mg/kg | 0.10 | 0.027 | EPA-8270C | | | 1 |
| 2-Chloronaphthalene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 4-Chlorophenyl phenyl ether | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |
| Chrysene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 4,4'-DDD | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDE | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | 1.0 | | 1 |
| 4,4'-DDT | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | 1.0 | | 1 |
| Dibenzo[a,h]anthracene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dibenzofuran | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| 1,2-Dichlorobenzene | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-27 | Client Sample Name: B3-d60.5, 12/22/2015 8:47:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|---------------------------|--------|-------|------|--------|-----------|-------------|-----------|-------|
| 1,3-Dichlorobenzene | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| 1,4-Dichlorobenzene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| 3,3-Dichlorobenzidine | ND | mg/kg | 0.20 | 0.0067 | EPA-8270C | | | 1 |
| Dieldrin | ND | mg/kg | 0.10 | 0.031 | EPA-8270C | 8.0 | | 1 |
| Diethyl phthalate | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Dimethyl phthalate | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Di-n-butyl phthalate | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2,4-Dinitrotoluene | ND | mg/kg | 0.10 | 0.022 | EPA-8270C | | | 1 |
| 2,6-Dinitrotoluene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Di-n-octyl phthalate | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2-Diphenylhydrazine | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Endosulfan I | ND | mg/kg | 0.20 | 0.020 | EPA-8270C | | | 1 |
| Endosulfan II | ND | mg/kg | 0.20 | 0.021 | EPA-8270C | | | 1 |
| Endosulfan sulfate | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Endrin | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | 0.2 | | 1 |
| Endrin aldehyde | ND | mg/kg | 0.50 | 0.022 | EPA-8270C | | | 1 |
| Fluoranthene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Fluorene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Heptachlor | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | 4.7 | | 1 |
| Heptachlor epoxide | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorobenzene | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| Hexachlorobutadiene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| Hexachlorocyclopentadiene | ND | mg/kg | 0.10 | 0.019 | EPA-8270C | | | 1 |
| Hexachloroethane | ND | mg/kg | 0.10 | 0.020 | EPA-8270C | | | 1 |
| Indeno[1,2,3-cd]pyrene | ND | mg/kg | 0.10 | 0.072 | EPA-8270C | | | 1 |
| Isophorone | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2-Methylnaphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Naphthalene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 2-Naphthylamine | ND | mg/kg | 3.0 | 0.16 | EPA-8270C | | | 1 |
| 2-Nitroaniline | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 3-Nitroaniline | ND | mg/kg | 0.20 | 0.015 | EPA-8270C | | | 1 |
| 4-Nitroaniline | ND | mg/kg | 0.20 | 0.025 | EPA-8270C | | | 1 |
| Nitrobenzene | ND | mg/kg | 0.10 | 0.015 | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1532856-27 **Client Sample Name:** B3-d60.5, 12/22/2015 8:47:00AM, Jeff Monroe

| Constituent | Result | Units | PQL | MDL | Method | TTLC Limits | Lab Quals | Run # |
|----------------------------|--------|-------|----------------------|--------|-----------|-------------|-----------|-------|
| N-Nitrosodimethylamine | ND | mg/kg | 0.10 | 0.037 | EPA-8270C | | | 1 |
| N-Nitrosodi-N-propylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| N-Nitrosodiphenylamine | ND | mg/kg | 0.10 | 0.021 | EPA-8270C | | | 1 |
| Phenanthrene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| Pyrene | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 1,2,4-Trichlorobenzene | ND | mg/kg | 0.10 | 0.018 | EPA-8270C | | | 1 |
| 4-Chloro-3-methylphenol | ND | mg/kg | 0.20 | 0.022 | EPA-8270C | | | 1 |
| 2-Chlorophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4-Dichlorophenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 2,4-Dimethylphenol | ND | mg/kg | 0.10 | 0.035 | EPA-8270C | | | 1 |
| 4,6-Dinitro-2-methylphenol | ND | mg/kg | 0.50 | 0.012 | EPA-8270C | | | 1 |
| 2,4-Dinitrophenol | ND | mg/kg | 0.50 | 0.0077 | EPA-8270C | | | 1 |
| 2-Methylphenol | ND | mg/kg | 0.10 | 0.017 | EPA-8270C | | | 1 |
| 3- & 4-Methylphenol | ND | mg/kg | 0.20 | 0.033 | EPA-8270C | | | 1 |
| Total Methylphenol | ND | mg/kg | 0.20 | 0.047 | EPA-8270C | | | 1 |
| 2-Nitrophenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 4-Nitrophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| Pentachlorophenol | ND | mg/kg | 0.20 | 0.013 | EPA-8270C | 17 | | 1 |
| Phenol | ND | mg/kg | 0.10 | 0.016 | EPA-8270C | | | 1 |
| 2,4,5-Trichlorophenol | ND | mg/kg | 0.20 | 0.018 | EPA-8270C | | | 1 |
| 2,4,6-Trichlorophenol | ND | mg/kg | 0.20 | 0.017 | EPA-8270C | | | 1 |
| PCB-1016 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1221 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1232 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1242 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1248 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1254 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1260 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1262 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| PCB-1268 | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| Total PCB's (Summation) | ND | mg/kg | 2.0 | 1.0 | EPA-8270C | 50 | | 1 |
| 2-Fluorophenol (Surrogate) | 48.4 | % | 20 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| Phenol-d5 (Surrogate) | 50.1 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

| BCL Sample ID: 1532856-27 | Client Sample Name: B3-d60.5, 12/22/2015 8:47:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|-----------|--------------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
| Nitrobenzene-d5 (Surrogate) | 49.2 | % | 30 - 130 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2-Fluorobiphenyl (Surrogate) | 30.2 | % | 30 - 140 (LCL - UCL) | | EPA-8270C | | | 1 |
| 2,4,6-Tribromophenol (Surrogate) | 41.7 | % | 20 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |
| p-Terphenyl-d14 (Surrogate) | 50.8 | % | 30 - 150 (LCL - UCL) | | EPA-8270C | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8270C | 12/28/15 | 12/30/15 18:33 | VH1 | MS-B2 | 0.938 | BYL2622 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

| BCL Sample ID: 1532856-27 | Client Sample Name: B3-d60.5, 12/22/2015 8:47:00AM, Jeff Monroe | | | | | | | |
|----------------------------------|--|-------|----------------------|-----|---------------|---------|-----------|-------|
| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
| TPH - Gasoline | ND | mg/kg | 20 | 5.0 | EPA-8015B/FFP | ND | | 1 |
| TPH - Diesel (FFP) | ND | mg/kg | 10 | 1.2 | EPA-8015B/FFP | ND | | 1 |
| TPH - Motor Oil | ND | mg/kg | 20 | 6.5 | EPA-8015B/FFP | ND | | 1 |
| Tetracosane (Surrogate) | 51.1 | % | 20 - 145 (LCL - UCL) | | EPA-8015B/FFP | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|---------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B/FFP | 12/28/15 | 12/30/15 13:27 | MWB | GC-13 | 1 | BYL2593 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLIC)

| | |
|----------------------------------|--|
| BCL Sample ID: 1532856-27 | Client Sample Name: B3-d60.5, 12/22/2015 8:47:00AM, Jeff Monroe |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | TTLIC Limits | Lab Quals | Run # |
|-------------|--------|-------|------|-------|-----------|--------------|-----------|-------|
| Antimony | ND | mg/kg | 5.0 | 0.33 | EPA-6010B | 500 | | 1 |
| Arsenic | 4.6 | mg/kg | 1.0 | 0.40 | EPA-6010B | 500 | | 1 |
| Barium | 33 | mg/kg | 0.50 | 0.18 | EPA-6010B | 10000 | | 1 |
| Beryllium | 0.28 | mg/kg | 0.50 | 0.047 | EPA-6010B | 75 | J | 1 |
| Cadmium | ND | mg/kg | 0.50 | 0.052 | EPA-6010B | 100 | | 1 |
| Chromium | 28 | mg/kg | 0.50 | 0.050 | EPA-6010B | 2500 | | 1 |
| Cobalt | 11 | mg/kg | 2.5 | 0.098 | EPA-6010B | 8000 | | 1 |
| Copper | 18 | mg/kg | 1.0 | 0.050 | EPA-6010B | 2500 | | 1 |
| Lead | 7.0 | mg/kg | 2.5 | 0.28 | EPA-6010B | 1000 | | 1 |
| Mercury | 0.043 | mg/kg | 0.16 | 0.036 | EPA-7471A | 20 | J | 2 |
| Molybdenum | 0.43 | mg/kg | 2.5 | 0.050 | EPA-6010B | 3500 | J | 1 |
| Nickel | 55 | mg/kg | 0.50 | 0.15 | EPA-6010B | 2000 | | 1 |
| Selenium | ND | mg/kg | 1.0 | 0.98 | EPA-6010B | 100 | | 1 |
| Silver | 0.23 | mg/kg | 0.50 | 0.067 | EPA-6010B | 500 | J | 1 |
| Thallium | 0.88 | mg/kg | 5.0 | 0.64 | EPA-6010B | 700 | J | 1 |
| Vanadium | 27 | mg/kg | 0.50 | 0.11 | EPA-6010B | 2400 | | 1 |
| Zinc | 33 | mg/kg | 2.5 | 0.087 | EPA-6010B | 5000 | | 1 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 12/24/15 | 12/24/15 | 14:27 | JCC | PE-OP3 | 0.935 | BYL2347 |
| 2 | EPA-7471A | 12/29/15 | 12/30/15 | 13:24 | MEV | CETAC1 | 0.992 | BYL2592 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|--------|---------|-----------|
| QC Batch ID: BYL2011 | | | | | | |
| Benzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Bromobenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Bromochloromethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.00092 | |
| Bromodichloromethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.00084 | |
| Bromoform | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Bromomethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| n-Butylbenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| sec-Butylbenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| tert-Butylbenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Carbon tetrachloride | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Chlorobenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Chloroethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| Chloroform | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.00063 | |
| Chloromethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 2-Chlorotoluene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0018 | |
| 4-Chlorotoluene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| Dibromochloromethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.00099 | |
| 1,2-Dibromo-3-chloropropane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0017 | |
| 1,2-Dibromoethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0010 | |
| Dibromomethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0018 | |
| 1,2-Dichlorobenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.00081 | |
| 1,3-Dichlorobenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,4-Dichlorobenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Dichlorodifluoromethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,1-Dichloroethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,2-Dichloroethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.00085 | |
| 1,1-Dichloroethene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| cis-1,2-Dichloroethene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| trans-1,2-Dichloroethene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,2-Dichloropropane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.00081 | |
| 1,3-Dichloropropane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 2,2-Dichloropropane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,1-Dichloropropene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| cis-1,3-Dichloropropene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-------------|--------------|-----------|-------|-----|-----|-----------|
|-------------|--------------|-----------|-------|-----|-----|-----------|

QC Batch ID: BYL2011

| | | | | | | |
|--|---------------------|-------------|----------|-----------------------------|---------|--|
| trans-1,3-Dichloropropene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Ethylbenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Hexachlorobutadiene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0017 | |
| Isopropylbenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| p-Isopropyltoluene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Methylene chloride | BYL2011-BLK1 | ND | mg/kg | 0.010 | 0.0024 | |
| Methyl t-butyl ether | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.00050 | |
| Naphthalene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| n-Propylbenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Styrene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,1,1,2-Tetrachloroethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,1,1,2-Tetrachloroethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Tetrachloroethene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Toluene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| 1,2,3-Trichlorobenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0021 | |
| 1,2,4-Trichlorobenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0020 | |
| 1,1,1-Trichloroethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,1,2-Trichloroethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.00077 | |
| Trichloroethene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Trichlorofluoromethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,2,3-Trichloropropane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,2,4-Trimethylbenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,3,5-Trimethylbenzene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Vinyl chloride | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| Total Xylenes | BYL2011-BLK1 | ND | mg/kg | 0.010 | 0.0034 | |
| p- & m-Xylenes | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0022 | |
| o-Xylene | BYL2011-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| 1,2-Dichloroethane-d4 (Surrogate) | BYL2011-BLK1 | 108 | % | 70 - 121 (LCL - UCL) | | |
| Toluene-d8 (Surrogate) | BYL2011-BLK1 | 96.9 | % | 81 - 117 (LCL - UCL) | | |
| 4-Bromofluorobenzene (Surrogate) | BYL2011-BLK1 | 102 | % | 74 - 121 (LCL - UCL) | | |

QC Batch ID: BYL2281

| | | | | | | |
|---------|--------------|----|-------|--------|--------|--|
| Benzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
|---------|--------------|----|-------|--------|--------|--|

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|--------|---------|-----------|
| QC Batch ID: BYL2281 | | | | | | |
| Bromobenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Bromochloromethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.00092 | |
| Bromodichloromethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.00084 | |
| Bromoform | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Bromomethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| n-Butylbenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| sec-Butylbenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| tert-Butylbenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Carbon tetrachloride | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Chlorobenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Chloroethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| Chloroform | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.00063 | |
| Chloromethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 2-Chlorotoluene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0018 | |
| 4-Chlorotoluene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| Dibromochloromethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.00099 | |
| 1,2-Dibromo-3-chloropropane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0017 | |
| 1,2-Dibromoethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0010 | |
| Dibromomethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0018 | |
| 1,2-Dichlorobenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.00081 | |
| 1,3-Dichlorobenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,4-Dichlorobenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Dichlorodifluoromethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,1-Dichloroethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,2-Dichloroethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.00085 | |
| 1,1-Dichloroethene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| cis-1,2-Dichloroethene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| trans-1,2-Dichloroethene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,2-Dichloropropane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.00081 | |
| 1,3-Dichloropropane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 2,2-Dichloropropane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,1-Dichloropropene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| cis-1,3-Dichloropropene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| trans-1,3-Dichloropropene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|--|---------------------|-------------|----------|-----------------------------|---------|-----------|
| QC Batch ID: BYL2281 | | | | | | |
| Ethylbenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Hexachlorobutadiene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0017 | |
| Isopropylbenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| p-Isopropyltoluene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Methylene chloride | BYL2281-BLK1 | ND | mg/kg | 0.010 | 0.0024 | |
| Methyl t-butyl ether | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.00050 | |
| Naphthalene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| n-Propylbenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Styrene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,1,1,2-Tetrachloroethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,1,2,2-Tetrachloroethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Tetrachloroethene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Toluene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| 1,2,3-Trichlorobenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0021 | |
| 1,2,4-Trichlorobenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0020 | |
| 1,1,1-Trichloroethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,1,2-Trichloroethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.00077 | |
| Trichloroethene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Trichlorofluoromethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,2,3-Trichloropropane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,2,4-Trimethylbenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,3,5-Trimethylbenzene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Vinyl chloride | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| Total Xylenes | BYL2281-BLK1 | ND | mg/kg | 0.010 | 0.0034 | |
| p- & m-Xylenes | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0022 | |
| o-Xylene | BYL2281-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| 1,2-Dichloroethane-d4 (Surrogate) | BYL2281-BLK1 | 90.4 | % | 70 - 121 (LCL - UCL) | | |
| Toluene-d8 (Surrogate) | BYL2281-BLK1 | 99.6 | % | 81 - 117 (LCL - UCL) | | |
| 4-Bromofluorobenzene (Surrogate) | BYL2281-BLK1 | 101 | % | 74 - 121 (LCL - UCL) | | |

| | | | | | | |
|-----------------------------|--------------|----|-------|--------|--------|--|
| QC Batch ID: BYL2307 | | | | | | |
| Benzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Bromobenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|--------|---------|-----------|
| QC Batch ID: BYL2307 | | | | | | |
| Bromochloromethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.00092 | |
| Bromodichloromethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.00084 | |
| Bromoform | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Bromomethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| n-Butylbenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| sec-Butylbenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| tert-Butylbenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Carbon tetrachloride | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Chlorobenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Chloroethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| Chloroform | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.00063 | |
| Chloromethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 2-Chlorotoluene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0018 | |
| 4-Chlorotoluene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| Dibromochloromethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.00099 | |
| 1,2-Dibromo-3-chloropropane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0017 | |
| 1,2-Dibromoethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0010 | |
| Dibromomethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0018 | |
| 1,2-Dichlorobenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.00081 | |
| 1,3-Dichlorobenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,4-Dichlorobenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Dichlorodifluoromethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,1-Dichloroethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,2-Dichloroethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.00085 | |
| 1,1-Dichloroethene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| cis-1,2-Dichloroethene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| trans-1,2-Dichloroethene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,2-Dichloropropane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.00081 | |
| 1,3-Dichloropropane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 2,2-Dichloropropane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,1-Dichloropropene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| cis-1,3-Dichloropropene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| trans-1,3-Dichloropropene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| Ethylbenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|--|---------------------|-------------|----------|-----------------------------|---------|-----------|
| QC Batch ID: BYL2307 | | | | | | |
| Hexachlorobutadiene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0017 | |
| Isopropylbenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| p-Isopropyltoluene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Methylene chloride | BYL2307-BLK1 | ND | mg/kg | 0.010 | 0.0024 | |
| Methyl t-butyl ether | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.00050 | |
| Naphthalene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| n-Propylbenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Styrene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0014 | |
| 1,1,1,2-Tetrachloroethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,1,1,2-Tetrachloroethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Tetrachloroethene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| Toluene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| 1,2,3-Trichlorobenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0021 | |
| 1,2,4-Trichlorobenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0020 | |
| 1,1,1-Trichloroethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,1,2-Trichloroethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.00077 | |
| Trichloroethene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| Trichlorofluoromethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0011 | |
| 1,2,3-Trichloropropane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,2,4-Trimethylbenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0013 | |
| 1,3,5-Trimethylbenzene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0015 | |
| Vinyl chloride | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0016 | |
| Total Xylenes | BYL2307-BLK1 | ND | mg/kg | 0.010 | 0.0034 | |
| p- & m-Xylenes | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0022 | |
| o-Xylene | BYL2307-BLK1 | ND | mg/kg | 0.0050 | 0.0012 | |
| 1,2-Dichloroethane-d4 (Surrogate) | BYL2307-BLK1 | 94.6 | % | 70 - 121 (LCL - UCL) | | |
| Toluene-d8 (Surrogate) | BYL2307-BLK1 | 101 | % | 81 - 117 (LCL - UCL) | | |
| 4-Bromofluorobenzene (Surrogate) | BYL2307-BLK1 | 95.3 | % | 74 - 121 (LCL - UCL) | | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab Quals |
|-----------------------------------|--------------|------|----------|-------------|-------|------------------|-----|------------------|-----|--------------|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYL2011 | | | | | | | | | | |
| Benzene | BYL2011-BS1 | LCS | 0.10605 | 0.12500 | mg/kg | 84.8 | | 70 - 130 | | |
| Bromodichloromethane | BYL2011-BS1 | LCS | 0.12021 | 0.12500 | mg/kg | 96.2 | | 70 - 130 | | |
| Chlorobenzene | BYL2011-BS1 | LCS | 0.11589 | 0.12500 | mg/kg | 92.7 | | 70 - 130 | | |
| Chloroethane | BYL2011-BS1 | LCS | 0.10925 | 0.12500 | mg/kg | 87.4 | | 70 - 130 | | |
| 1,4-Dichlorobenzene | BYL2011-BS1 | LCS | 0.13194 | 0.12500 | mg/kg | 106 | | 70 - 130 | | |
| 1,1-Dichloroethane | BYL2011-BS1 | LCS | 0.11274 | 0.12500 | mg/kg | 90.2 | | 70 - 130 | | |
| 1,1-Dichloroethene | BYL2011-BS1 | LCS | 0.10655 | 0.12500 | mg/kg | 85.2 | | 70 - 130 | | |
| Toluene | BYL2011-BS1 | LCS | 0.11099 | 0.12500 | mg/kg | 88.8 | | 70 - 130 | | |
| Trichloroethene | BYL2011-BS1 | LCS | 0.11414 | 0.12500 | mg/kg | 91.3 | | 70 - 130 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BYL2011-BS1 | LCS | 0.054640 | 0.050000 | mg/kg | 109 | | 70 - 121 | | |
| Toluene-d8 (Surrogate) | BYL2011-BS1 | LCS | 0.050110 | 0.050000 | mg/kg | 100 | | 81 - 117 | | |
| 4-Bromofluorobenzene (Surrogate) | BYL2011-BS1 | LCS | 0.054540 | 0.050000 | mg/kg | 109 | | 74 - 121 | | |
| QC Batch ID: BYL2281 | | | | | | | | | | |
| Benzene | BYL2281-BS1 | LCS | 0.11728 | 0.12500 | mg/kg | 93.8 | | 70 - 130 | | |
| Bromodichloromethane | BYL2281-BS1 | LCS | 0.12608 | 0.12500 | mg/kg | 101 | | 70 - 130 | | |
| Chlorobenzene | BYL2281-BS1 | LCS | 0.13438 | 0.12500 | mg/kg | 108 | | 70 - 130 | | |
| Chloroethane | BYL2281-BS1 | LCS | 0.11412 | 0.12500 | mg/kg | 91.3 | | 70 - 130 | | |
| 1,4-Dichlorobenzene | BYL2281-BS1 | LCS | 0.14477 | 0.12500 | mg/kg | 116 | | 70 - 130 | | |
| 1,1-Dichloroethane | BYL2281-BS1 | LCS | 0.11651 | 0.12500 | mg/kg | 93.2 | | 70 - 130 | | |
| 1,1-Dichloroethene | BYL2281-BS1 | LCS | 0.11793 | 0.12500 | mg/kg | 94.3 | | 70 - 130 | | |
| Toluene | BYL2281-BS1 | LCS | 0.13051 | 0.12500 | mg/kg | 104 | | 70 - 130 | | |
| Trichloroethene | BYL2281-BS1 | LCS | 0.12892 | 0.12500 | mg/kg | 103 | | 70 - 130 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BYL2281-BS1 | LCS | 0.044870 | 0.050000 | mg/kg | 89.7 | | 70 - 121 | | |
| Toluene-d8 (Surrogate) | BYL2281-BS1 | LCS | 0.050810 | 0.050000 | mg/kg | 102 | | 81 - 117 | | |
| 4-Bromofluorobenzene (Surrogate) | BYL2281-BS1 | LCS | 0.051570 | 0.050000 | mg/kg | 103 | | 74 - 121 | | |
| QC Batch ID: BYL2307 | | | | | | | | | | |
| Benzene | BYL2307-BS1 | LCS | 0.11178 | 0.12500 | mg/kg | 89.4 | | 70 - 130 | | |
| Bromodichloromethane | BYL2307-BS1 | LCS | 0.11912 | 0.12500 | mg/kg | 95.3 | | 70 - 130 | | |
| Chlorobenzene | BYL2307-BS1 | LCS | 0.12726 | 0.12500 | mg/kg | 102 | | 70 - 130 | | |
| Chloroethane | BYL2307-BS1 | LCS | 0.11777 | 0.12500 | mg/kg | 94.2 | | 70 - 130 | | |
| 1,4-Dichlorobenzene | BYL2307-BS1 | LCS | 0.13229 | 0.12500 | mg/kg | 106 | | 70 - 130 | | |
| 1,1-Dichloroethane | BYL2307-BS1 | LCS | 0.11169 | 0.12500 | mg/kg | 89.4 | | 70 - 130 | | |
| 1,1-Dichloroethene | BYL2307-BS1 | LCS | 0.11813 | 0.12500 | mg/kg | 94.5 | | 70 - 130 | | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab |
|-----------------------------------|--------------|------|----------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYL2307 | | | | | | | | | | |
| Toluene | BYL2307-BS1 | LCS | 0.12411 | 0.12500 | mg/kg | 99.3 | | 70 - 130 | | |
| Trichloroethene | BYL2307-BS1 | LCS | 0.12693 | 0.12500 | mg/kg | 102 | | 70 - 130 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BYL2307-BS1 | LCS | 0.046460 | 0.050000 | mg/kg | 92.9 | | 70 - 121 | | |
| Toluene-d8 (Surrogate) | BYL2307-BS1 | LCS | 0.050380 | 0.050000 | mg/kg | 101 | | 81 - 117 | | |
| 4-Bromofluorobenzene (Surrogate) | BYL2307-BS1 | LCS | 0.049930 | 0.050000 | mg/kg | 99.9 | | 74 - 121 | | |

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1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Control Limits | | Lab Quals |
|-----------------------------------|------|-----------------------|---------------|----------|-------------|-------|------|------------------|------------------|-----------|
| | | | | | | | | Percent Recovery | Percent Recovery | |
| QC Batch ID: BYL2011 | | Used client sample: N | | | | | | | | |
| Benzene | MS | 1532390-08 | ND | 0.10808 | 0.12500 | mg/kg | | 86.5 | | 70 - 130 |
| | MSD | 1532390-08 | ND | 0.096660 | 0.12500 | mg/kg | 11.2 | 77.3 | 20 | 70 - 130 |
| Bromodichloromethane | MS | 1532390-08 | ND | 0.12132 | 0.12500 | mg/kg | | 97.1 | | 70 - 130 |
| | MSD | 1532390-08 | ND | 0.11208 | 0.12500 | mg/kg | 7.9 | 89.7 | 20 | 70 - 130 |
| Chlorobenzene | MS | 1532390-08 | ND | 0.10763 | 0.12500 | mg/kg | | 86.1 | | 70 - 130 |
| | MSD | 1532390-08 | ND | 0.10533 | 0.12500 | mg/kg | 2.2 | 84.3 | 20 | 70 - 130 |
| Chloroethane | MS | 1532390-08 | ND | 0.097520 | 0.12500 | mg/kg | | 78.0 | | 70 - 130 |
| | MSD | 1532390-08 | ND | 0.092930 | 0.12500 | mg/kg | 4.8 | 74.3 | 20 | 70 - 130 |
| 1,4-Dichlorobenzene | MS | 1532390-08 | ND | 0.11999 | 0.12500 | mg/kg | | 96.0 | | 70 - 130 |
| | MSD | 1532390-08 | ND | 0.11883 | 0.12500 | mg/kg | 1.0 | 95.1 | 20 | 70 - 130 |
| 1,1-Dichloroethane | MS | 1532390-08 | ND | 0.11297 | 0.12500 | mg/kg | | 90.4 | | 70 - 130 |
| | MSD | 1532390-08 | ND | 0.10176 | 0.12500 | mg/kg | 10.4 | 81.4 | 20 | 70 - 130 |
| 1,1-Dichloroethene | MS | 1532390-08 | ND | 0.10085 | 0.12500 | mg/kg | | 80.7 | | 70 - 130 |
| | MSD | 1532390-08 | ND | 0.088690 | 0.12500 | mg/kg | 12.8 | 71.0 | 20 | 70 - 130 |
| Toluene | MS | 1532390-08 | ND | 0.10645 | 0.12500 | mg/kg | | 85.2 | | 70 - 130 |
| | MSD | 1532390-08 | ND | 0.10140 | 0.12500 | mg/kg | 4.9 | 81.1 | 20 | 70 - 130 |
| Trichloroethene | MS | 1532390-08 | ND | 0.10838 | 0.12500 | mg/kg | | 86.7 | | 70 - 130 |
| | MSD | 1532390-08 | ND | 0.10334 | 0.12500 | mg/kg | 4.8 | 82.7 | 20 | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surrogate) | MS | 1532390-08 | ND | 0.060040 | 0.050000 | mg/kg | | 120 | | 70 - 121 |
| | MSD | 1532390-08 | ND | 0.056280 | 0.050000 | mg/kg | 6.5 | 113 | | 70 - 121 |
| Toluene-d8 (Surrogate) | MS | 1532390-08 | ND | 0.049720 | 0.050000 | mg/kg | | 99.4 | | 81 - 117 |
| | MSD | 1532390-08 | ND | 0.048480 | 0.050000 | mg/kg | 2.5 | 97.0 | | 81 - 117 |
| 4-Bromofluorobenzene (Surrogate) | MS | 1532390-08 | ND | 0.053180 | 0.050000 | mg/kg | | 106 | | 74 - 121 |
| | MSD | 1532390-08 | ND | 0.055470 | 0.050000 | mg/kg | 4.2 | 111 | | 74 - 121 |
| QC Batch ID: BYL2281 | | Used client sample: N | | | | | | | | |
| Benzene | MS | 1532390-23 | ND | 0.10050 | 0.12500 | mg/kg | | 80.4 | | 70 - 130 |
| | MSD | 1532390-23 | ND | 0.10629 | 0.12500 | mg/kg | 5.6 | 85.0 | 20 | 70 - 130 |
| Bromodichloromethane | MS | 1532390-23 | ND | 0.10738 | 0.12500 | mg/kg | | 85.9 | | 70 - 130 |
| | MSD | 1532390-23 | ND | 0.11069 | 0.12500 | mg/kg | 3.0 | 88.6 | 20 | 70 - 130 |
| Chlorobenzene | MS | 1532390-23 | ND | 0.10995 | 0.12500 | mg/kg | | 88.0 | | 70 - 130 |
| | MSD | 1532390-23 | ND | 0.11451 | 0.12500 | mg/kg | 4.1 | 91.6 | 20 | 70 - 130 |
| Chloroethane | MS | 1532390-23 | ND | 0.095280 | 0.12500 | mg/kg | | 76.2 | | 70 - 130 |
| | MSD | 1532390-23 | ND | 0.10087 | 0.12500 | mg/kg | 5.7 | 80.7 | 20 | 70 - 130 |
| 1,4-Dichlorobenzene | MS | 1532390-23 | ND | 0.11699 | 0.12500 | mg/kg | | 93.6 | | 70 - 130 |
| | MSD | 1532390-23 | ND | 0.11842 | 0.12500 | mg/kg | 1.2 | 94.7 | 20 | 70 - 130 |
| 1,1-Dichloroethane | MS | 1532390-23 | ND | 0.099090 | 0.12500 | mg/kg | | 79.3 | | 70 - 130 |
| | MSD | 1532390-23 | ND | 0.10594 | 0.12500 | mg/kg | 6.7 | 84.8 | 20 | 70 - 130 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Control Limits | | Lab |
|-----------------------------------|------|-----------------------|---------------|----------|-------------|-------|-----|------------------|-----|----------|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYL2281 | | Used client sample: N | | | | | | | | |
| 1,1-Dichloroethene | MS | 1532390-23 | ND | 0.098460 | 0.12500 | mg/kg | | 78.8 | | 70 - 130 |
| | MSD | 1532390-23 | ND | 0.10291 | 0.12500 | mg/kg | 4.4 | 82.3 | 20 | 70 - 130 |
| Toluene | MS | 1532390-23 | ND | 0.10415 | 0.12500 | mg/kg | | 83.3 | | 70 - 130 |
| | MSD | 1532390-23 | ND | 0.11099 | 0.12500 | mg/kg | 6.4 | 88.8 | 20 | 70 - 130 |
| Trichloroethene | MS | 1532390-23 | ND | 0.10616 | 0.12500 | mg/kg | | 84.9 | | 70 - 130 |
| | MSD | 1532390-23 | ND | 0.11086 | 0.12500 | mg/kg | 4.3 | 88.7 | 20 | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surrogate) | MS | 1532390-23 | ND | 0.046790 | 0.050000 | mg/kg | | 93.6 | | 70 - 121 |
| | MSD | 1532390-23 | ND | 0.046650 | 0.050000 | mg/kg | 0.3 | 93.3 | | 70 - 121 |
| Toluene-d8 (Surrogate) | MS | 1532390-23 | ND | 0.049400 | 0.050000 | mg/kg | | 98.8 | | 81 - 117 |
| | MSD | 1532390-23 | ND | 0.048370 | 0.050000 | mg/kg | 2.1 | 96.7 | | 81 - 117 |
| 4-Bromofluorobenzene (Surrogate) | MS | 1532390-23 | ND | 0.051040 | 0.050000 | mg/kg | | 102 | | 74 - 121 |
| | MSD | 1532390-23 | ND | 0.049770 | 0.050000 | mg/kg | 2.5 | 99.5 | | 74 - 121 |
| QC Batch ID: BYL2307 | | Used client sample: N | | | | | | | | |
| Benzene | MS | 1532390-10 | ND | 0.11328 | 0.12500 | mg/kg | | 90.6 | | 70 - 130 |
| | MSD | 1532390-10 | ND | 0.10820 | 0.12500 | mg/kg | 4.6 | 86.6 | 20 | 70 - 130 |
| Bromodichloromethane | MS | 1532390-10 | ND | 0.12204 | 0.12500 | mg/kg | | 97.6 | | 70 - 130 |
| | MSD | 1532390-10 | ND | 0.11572 | 0.12500 | mg/kg | 5.3 | 92.6 | 20 | 70 - 130 |
| Chlorobenzene | MS | 1532390-10 | ND | 0.11599 | 0.12500 | mg/kg | | 92.8 | | 70 - 130 |
| | MSD | 1532390-10 | ND | 0.11556 | 0.12500 | mg/kg | 0.4 | 92.4 | 20 | 70 - 130 |
| Chloroethane | MS | 1532390-10 | ND | 0.11002 | 0.12500 | mg/kg | | 88.0 | | 70 - 130 |
| | MSD | 1532390-10 | ND | 0.10796 | 0.12500 | mg/kg | 1.9 | 86.4 | 20 | 70 - 130 |
| 1,4-Dichlorobenzene | MS | 1532390-10 | ND | 0.12146 | 0.12500 | mg/kg | | 97.2 | | 70 - 130 |
| | MSD | 1532390-10 | ND | 0.12274 | 0.12500 | mg/kg | 1.0 | 98.2 | 20 | 70 - 130 |
| 1,1-Dichloroethane | MS | 1532390-10 | ND | 0.11311 | 0.12500 | mg/kg | | 90.5 | | 70 - 130 |
| | MSD | 1532390-10 | ND | 0.11079 | 0.12500 | mg/kg | 2.1 | 88.6 | 20 | 70 - 130 |
| 1,1-Dichloroethene | MS | 1532390-10 | ND | 0.11147 | 0.12500 | mg/kg | | 89.2 | | 70 - 130 |
| | MSD | 1532390-10 | ND | 0.10653 | 0.12500 | mg/kg | 4.5 | 85.2 | 20 | 70 - 130 |
| Toluene | MS | 1532390-10 | ND | 0.11921 | 0.12500 | mg/kg | | 95.4 | | 70 - 130 |
| | MSD | 1532390-10 | ND | 0.11233 | 0.12500 | mg/kg | 5.9 | 89.9 | 20 | 70 - 130 |
| Trichloroethene | MS | 1532390-10 | ND | 0.12018 | 0.12500 | mg/kg | | 96.1 | | 70 - 130 |
| | MSD | 1532390-10 | ND | 0.11202 | 0.12500 | mg/kg | 7.0 | 89.6 | 20 | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surrogate) | MS | 1532390-10 | ND | 0.049640 | 0.050000 | mg/kg | | 99.3 | | 70 - 121 |
| | MSD | 1532390-10 | ND | 0.047830 | 0.050000 | mg/kg | 3.7 | 95.7 | | 70 - 121 |
| Toluene-d8 (Surrogate) | MS | 1532390-10 | ND | 0.052290 | 0.050000 | mg/kg | | 105 | | 81 - 117 |
| | MSD | 1532390-10 | ND | 0.048940 | 0.050000 | mg/kg | 6.6 | 97.9 | | 81 - 117 |
| 4-Bromofluorobenzene (Surrogate) | MS | 1532390-10 | ND | 0.051600 | 0.050000 | mg/kg | | 103 | | 74 - 121 |
| | MSD | 1532390-10 | ND | 0.050920 | 0.050000 | mg/kg | 1.3 | 102 | | 74 - 121 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|------|-------|-----------|
| QC Batch ID: BYL2622 | | | | | | |
| Acenaphthene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| Acenaphthylene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Aldrin | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.024 | |
| Aniline | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.053 | |
| Anthracene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| Benzidine | BYL2622-BLK1 | ND | mg/kg | 3.0 | 0.22 | |
| Benzo[a]anthracene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.012 | |
| Benzo[b]fluoranthene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| Benzo[k]fluoranthene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Benzo[a]pyrene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.015 | |
| Benzo[g,h,i]perylene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.056 | |
| Benzoic acid | BYL2622-BLK1 | ND | mg/kg | 0.50 | 0.067 | |
| Benzyl alcohol | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| Benzyl butyl phthalate | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.021 | |
| alpha-BHC | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| beta-BHC | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.021 | |
| delta-BHC | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| gamma-BHC (Lindane) | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| bis(2-Chloroethoxy)methane | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| bis(2-Chloroethyl) ether | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.016 | |
| bis(2-Chloroisopropyl)ether | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.021 | |
| bis(2-Ethylhexyl)phthalate | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.043 | |
| 4-Bromophenyl phenyl ether | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 4-Chloroaniline | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.027 | |
| 2-Chloronaphthalene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.020 | |
| 4-Chlorophenyl phenyl ether | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.015 | |
| Chrysene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 4,4'-DDD | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 4,4'-DDE | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 4,4'-DDT | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Dibenzo[a,h]anthracene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Dibenzofuran | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.020 | |
| 1,2-Dichlorobenzene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.020 | |
| 1,3-Dichlorobenzene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.021 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|------|--------|-----------|
| QC Batch ID: BYL2622 | | | | | | |
| 1,4-Dichlorobenzene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| 3,3-Dichlorobenzidine | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.0067 | |
| Dieldrin | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.031 | |
| Diethyl phthalate | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Dimethyl phthalate | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.020 | |
| Di-n-butyl phthalate | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| 2,4-Dinitrotoluene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.022 | |
| 2,6-Dinitrotoluene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| Di-n-octyl phthalate | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 1,2-Diphenylhydrazine | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Endosulfan I | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.020 | |
| Endosulfan II | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.021 | |
| Endosulfan sulfate | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.021 | |
| Endrin | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.025 | |
| Endrin aldehyde | BYL2622-BLK1 | ND | mg/kg | 0.50 | 0.022 | |
| Fluoranthene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| Fluorene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Heptachlor | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.021 | |
| Heptachlor epoxide | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| Hexachlorobenzene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.016 | |
| Hexachlorobutadiene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| Hexachlorocyclopentadiene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Hexachloroethane | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.020 | |
| Indeno[1,2,3-cd]pyrene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.072 | |
| Isophorone | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 2-Methylnaphthalene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| Naphthalene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| 2-Naphthylamine | BYL2622-BLK1 | ND | mg/kg | 3.0 | 0.16 | |
| 2-Nitroaniline | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| 3-Nitroaniline | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.015 | |
| 4-Nitroaniline | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.025 | |
| Nitrobenzene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.015 | |
| N-Nitrosodimethylamine | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.037 | |
| N-Nitrosodi-N-propylamine | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.021 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|---|---------------------|-------------|----------|-----------------------------|--------|-----------|
| QC Batch ID: BYL2622 | | | | | | |
| N-Nitrosodiphenylamine | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.021 | |
| Phenanthrene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| Pyrene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 1,2,4-Trichlorobenzene | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| 4-Chloro-3-methylphenol | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.022 | |
| 2-Chlorophenol | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.016 | |
| 2,4-Dichlorophenol | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 2,4-Dimethylphenol | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.035 | |
| 4,6-Dinitro-2-methylphenol | BYL2622-BLK1 | ND | mg/kg | 0.50 | 0.012 | |
| 2,4-Dinitrophenol | BYL2622-BLK1 | ND | mg/kg | 0.50 | 0.0077 | |
| 2-Methylphenol | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 3- & 4-Methylphenol | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.033 | |
| Total Methylphenol | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.047 | |
| 2-Nitrophenol | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.016 | |
| 4-Nitrophenol | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.018 | |
| Pentachlorophenol | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.013 | |
| Phenol | BYL2622-BLK1 | ND | mg/kg | 0.10 | 0.016 | |
| 2,4,5-Trichlorophenol | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.018 | |
| 2,4,6-Trichlorophenol | BYL2622-BLK1 | ND | mg/kg | 0.20 | 0.017 | |
| PCB-1268 | BYL2622-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1262 | BYL2622-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1260 | BYL2622-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1254 | BYL2622-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1248 | BYL2622-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1242 | BYL2622-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1232 | BYL2622-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1221 | BYL2622-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1016 | BYL2622-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| Total PCB's (Summation) | BYL2622-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| 2-Fluorophenol (Surrogate) | BYL2622-BLK1 | 79.1 | % | 20 - 130 (LCL - UCL) | | |
| Phenol-d5 (Surrogate) | BYL2622-BLK1 | 79.1 | % | 30 - 130 (LCL - UCL) | | |
| Nitrobenzene-d5 (Surrogate) | BYL2622-BLK1 | 83.9 | % | 30 - 130 (LCL - UCL) | | |
| 2-Fluorobiphenyl (Surrogate) | BYL2622-BLK1 | 85.8 | % | 30 - 140 (LCL - UCL) | | |
| 2,4,6-Tribromophenol (Surrogate) | BYL2622-BLK1 | 63.9 | % | 20 - 150 (LCL - UCL) | | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-------------|--------------|-----------|-------|-----|-----|-----------|
|-------------|--------------|-----------|-------|-----|-----|-----------|

QC Batch ID: BYL2622

| | | | | | | |
|-----------------------------|--------------|------|---|----------------------|--|--|
| p-Terphenyl-d14 (Surrogate) | BYL2622-BLK1 | 72.4 | % | 30 - 150 (LCL - UCL) | | |
|-----------------------------|--------------|------|---|----------------------|--|--|

QC Batch ID: BZA0149

| | | | | | | |
|-----------------------------|--------------|----|-------|------|-------|--|
| Acenaphthene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| Acenaphthylene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Aldrin | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.024 | |
| Aniline | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.053 | |
| Anthracene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| Benzidine | BZA0149-BLK1 | ND | mg/kg | 3.0 | 0.22 | |
| Benzo[a]anthracene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.012 | |
| Benzo[b]fluoranthene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| Benzo[k]fluoranthene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Benzo[a]pyrene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.015 | |
| Benzo[g,h,i]perylene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.056 | |
| Benzoic acid | BZA0149-BLK1 | ND | mg/kg | 0.50 | 0.067 | |
| Benzyl alcohol | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| Benzyl butyl phthalate | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.021 | |
| alpha-BHC | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| beta-BHC | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.021 | |
| delta-BHC | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| gamma-BHC (Lindane) | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| bis(2-Chloroethoxy)methane | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| bis(2-Chloroethyl) ether | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.016 | |
| bis(2-Chloroisopropyl)ether | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.021 | |
| bis(2-Ethylhexyl)phthalate | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.043 | |
| 4-Bromophenyl phenyl ether | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 4-Chloroaniline | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.027 | |
| 2-Chloronaphthalene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.020 | |
| 4-Chlorophenyl phenyl ether | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.015 | |
| Chrysene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 4,4'-DDD | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 4,4'-DDE | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 4,4'-DDT | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Dibenzo[a,h]anthracene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.019 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|------|--------|-----------|
| QC Batch ID: BZA0149 | | | | | | |
| Dibenzofuran | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.020 | |
| 1,2-Dichlorobenzene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.020 | |
| 1,3-Dichlorobenzene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.021 | |
| 1,4-Dichlorobenzene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| 3,3-Dichlorobenzidine | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.0067 | |
| Dieldrin | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.031 | |
| Diethyl phthalate | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Dimethyl phthalate | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.020 | |
| Di-n-butyl phthalate | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| 2,4-Dinitrotoluene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.022 | |
| 2,6-Dinitrotoluene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| Di-n-octyl phthalate | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 1,2-Diphenylhydrazine | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Endosulfan I | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.020 | |
| Endosulfan II | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.021 | |
| Endosulfan sulfate | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.021 | |
| Endrin | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.025 | |
| Endrin aldehyde | BZA0149-BLK1 | ND | mg/kg | 0.50 | 0.022 | |
| Fluoranthene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| Fluorene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Heptachlor | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.021 | |
| Heptachlor epoxide | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| Hexachlorobenzene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.016 | |
| Hexachlorobutadiene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| Hexachlorocyclopentadiene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.019 | |
| Hexachloroethane | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.020 | |
| Indeno[1,2,3-cd]pyrene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.072 | |
| Isophorone | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 2-Methylnaphthalene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| Naphthalene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| 2-Naphthylamine | BZA0149-BLK1 | ND | mg/kg | 3.0 | 0.16 | |
| 2-Nitroaniline | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| 3-Nitroaniline | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.015 | |
| 4-Nitroaniline | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.025 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------------|---------------------|-------------|----------|-----------------------------|--------|-----------|
| QC Batch ID: BZA0149 | | | | | | |
| Nitrobenzene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.015 | |
| N-Nitrosodimethylamine | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.037 | |
| N-Nitrosodi-N-propylamine | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.021 | |
| N-Nitrosodiphenylamine | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.021 | |
| Phenanthrene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| Pyrene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 1,2,4-Trichlorobenzene | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.018 | |
| 4-Chloro-3-methylphenol | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.022 | |
| 2-Chlorophenol | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.016 | |
| 2,4-Dichlorophenol | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 2,4-Dimethylphenol | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.035 | |
| 4,6-Dinitro-2-methylphenol | BZA0149-BLK1 | ND | mg/kg | 0.50 | 0.012 | |
| 2,4-Dinitrophenol | BZA0149-BLK1 | ND | mg/kg | 0.50 | 0.0077 | |
| 2-Methylphenol | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.017 | |
| 3- & 4-Methylphenol | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.033 | |
| Total Methylphenol | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.047 | |
| 2-Nitrophenol | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.016 | |
| 4-Nitrophenol | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.018 | |
| Pentachlorophenol | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.013 | |
| Phenol | BZA0149-BLK1 | ND | mg/kg | 0.10 | 0.016 | |
| 2,4,5-Trichlorophenol | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.018 | |
| 2,4,6-Trichlorophenol | BZA0149-BLK1 | ND | mg/kg | 0.20 | 0.017 | |
| PCB-1232 | BZA0149-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1268 | BZA0149-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1262 | BZA0149-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1260 | BZA0149-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1254 | BZA0149-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1242 | BZA0149-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1221 | BZA0149-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1016 | BZA0149-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| PCB-1248 | BZA0149-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| Total PCB's (Summation) | BZA0149-BLK1 | ND | mg/kg | 2.0 | 1.0 | |
| 2-Fluorophenol (Surrogate) | BZA0149-BLK1 | 92.1 | % | 20 - 130 (LCL - UCL) | | |
| Phenol-d5 (Surrogate) | BZA0149-BLK1 | 87.4 | % | 30 - 130 (LCL - UCL) | | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|----------------------------------|--------------|-----------|-------|----------------------|-----|-----------|
| QC Batch ID: BZA0149 | | | | | | |
| Nitrobenzene-d5 (Surrogate) | BZA0149-BLK1 | 94.2 | % | 30 - 130 (LCL - UCL) | | |
| 2-Fluorobiphenyl (Surrogate) | BZA0149-BLK1 | 89.1 | % | 30 - 140 (LCL - UCL) | | |
| 2,4,6-Tribromophenol (Surrogate) | BZA0149-BLK1 | 84.0 | % | 20 - 150 (LCL - UCL) | | |
| p-Terphenyl-d14 (Surrogate) | BZA0149-BLK1 | 70.3 | % | 30 - 150 (LCL - UCL) | | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab Quals |
|----------------------------------|--------------|------|---------|-------------|-------|------------------|-----|------------------|-----|--------------|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYL2622 | | | | | | | | | | |
| Acenaphthene | BYL2622-BS1 | LCS | 1.4959 | 1.6722 | mg/kg | 89.5 | | 50 - 130 | | |
| 1,4-Dichlorobenzene | BYL2622-BS1 | LCS | 1.5807 | 1.6722 | mg/kg | 94.5 | | 50 - 130 | | |
| 2,4-Dinitrotoluene | BYL2622-BS1 | LCS | 1.6976 | 1.6722 | mg/kg | 102 | | 50 - 130 | | |
| Hexachlorobenzene | BYL2622-BS1 | LCS | 1.4251 | 1.6722 | mg/kg | 85.2 | | 40 - 130 | | |
| Hexachlorobutadiene | BYL2622-BS1 | LCS | 1.4155 | 1.6722 | mg/kg | 84.6 | | 50 - 130 | | |
| Hexachloroethane | BYL2622-BS1 | LCS | 1.4751 | 1.6722 | mg/kg | 88.2 | | 50 - 130 | | |
| Nitrobenzene | BYL2622-BS1 | LCS | 1.6413 | 1.6722 | mg/kg | 98.1 | | 50 - 130 | | |
| N-Nitrosodi-N-propylamine | BYL2622-BS1 | LCS | 1.6204 | 1.6722 | mg/kg | 96.9 | | 40 - 120 | | |
| Pyrene | BYL2622-BS1 | LCS | 1.6939 | 1.6722 | mg/kg | 101 | | 40 - 150 | | |
| 1,2,4-Trichlorobenzene | BYL2622-BS1 | LCS | 1.4910 | 1.6722 | mg/kg | 89.2 | | 50 - 120 | | |
| 4-Chloro-3-methylphenol | BYL2622-BS1 | LCS | 1.4396 | 1.6722 | mg/kg | 86.1 | | 50 - 130 | | |
| 2-Chlorophenol | BYL2622-BS1 | LCS | 1.6317 | 1.6722 | mg/kg | 97.6 | | 50 - 130 | | |
| 2-Methylphenol | BYL2622-BS1 | LCS | 1.4228 | 1.6722 | mg/kg | 85.1 | | 50 - 130 | | |
| 3- & 4-Methylphenol | BYL2622-BS1 | LCS | 2.7475 | 3.3445 | mg/kg | 82.2 | | 50 - 130 | | |
| 4-Nitrophenol | BYL2622-BS1 | LCS | 1.2516 | 1.6722 | mg/kg | 74.8 | | 30 - 130 | | |
| Pentachlorophenol | BYL2622-BS1 | LCS | 1.1092 | 1.6722 | mg/kg | 66.3 | | 20 - 130 | | |
| Phenol | BYL2622-BS1 | LCS | 1.5608 | 1.6722 | mg/kg | 93.3 | | 40 - 120 | | |
| 2,4,6-Trichlorophenol | BYL2622-BS1 | LCS | 1.3281 | 1.6722 | mg/kg | 79.4 | | 50 - 130 | | |
| 2-Fluorophenol (Surrogate) | BYL2622-BS1 | LCS | 1.4122 | 1.6722 | mg/kg | 84.5 | | 20 - 130 | | |
| Phenol-d5 (Surrogate) | BYL2622-BS1 | LCS | 1.4486 | 1.6722 | mg/kg | 86.6 | | 30 - 130 | | |
| Nitrobenzene-d5 (Surrogate) | BYL2622-BS1 | LCS | 1.4079 | 1.6722 | mg/kg | 84.2 | | 30 - 130 | | |
| 2-Fluorobiphenyl (Surrogate) | BYL2622-BS1 | LCS | 1.5069 | 1.6722 | mg/kg | 90.1 | | 30 - 140 | | |
| 2,4,6-Tribromophenol (Surrogate) | BYL2622-BS1 | LCS | 1.2896 | 1.6722 | mg/kg | 77.1 | | 20 - 150 | | |
| p-Terphenyl-d14 (Surrogate) | BYL2622-BS1 | LCS | 0.65095 | 0.83612 | mg/kg | 77.9 | | 30 - 150 | | |
| QC Batch ID: BZA0149 | | | | | | | | | | |
| Acenaphthene | BZA0149-BS1 | LCS | 1.3707 | 1.6892 | mg/kg | 81.1 | | 50 - 130 | | |
| 1,4-Dichlorobenzene | BZA0149-BS1 | LCS | 1.5505 | 1.6892 | mg/kg | 91.8 | | 50 - 130 | | |
| 2,4-Dinitrotoluene | BZA0149-BS1 | LCS | 1.4922 | 1.6892 | mg/kg | 88.3 | | 50 - 130 | | |
| Hexachlorobenzene | BZA0149-BS1 | LCS | 1.3939 | 1.6892 | mg/kg | 82.5 | | 40 - 130 | | |
| Hexachlorobutadiene | BZA0149-BS1 | LCS | 1.3621 | 1.6892 | mg/kg | 80.6 | | 50 - 130 | | |
| Hexachloroethane | BZA0149-BS1 | LCS | 1.4674 | 1.6892 | mg/kg | 86.9 | | 50 - 130 | | |
| Nitrobenzene | BZA0149-BS1 | LCS | 1.5534 | 1.6892 | mg/kg | 92.0 | | 50 - 130 | | |
| N-Nitrosodi-N-propylamine | BZA0149-BS1 | LCS | 1.6038 | 1.6892 | mg/kg | 94.9 | | 40 - 120 | | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab Quals |
|----------------------------------|--------------|------|---------|-------------|-------|------------------|-----|------------------|-----|--------------|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BZA0149 | | | | | | | | | | |
| Pyrene | BZA0149-BS1 | LCS | 1.4114 | 1.6892 | mg/kg | 83.6 | | 40 - 150 | | |
| 1,2,4-Trichlorobenzene | BZA0149-BS1 | LCS | 1.4296 | 1.6892 | mg/kg | 84.6 | | 50 - 120 | | |
| 4-Chloro-3-methylphenol | BZA0149-BS1 | LCS | 1.3862 | 1.6892 | mg/kg | 82.1 | | 50 - 130 | | |
| 2-Chlorophenol | BZA0149-BS1 | LCS | 1.5412 | 1.6892 | mg/kg | 91.2 | | 50 - 130 | | |
| 2-Methylphenol | BZA0149-BS1 | LCS | 1.3445 | 1.6892 | mg/kg | 79.6 | | 50 - 130 | | |
| 3- & 4-Methylphenol | BZA0149-BS1 | LCS | 2.5791 | 3.3784 | mg/kg | 76.3 | | 50 - 130 | | |
| 4-Nitrophenol | BZA0149-BS1 | LCS | 1.1535 | 1.6892 | mg/kg | 68.3 | | 30 - 130 | | |
| Pentachlorophenol | BZA0149-BS1 | LCS | 0.90716 | 1.6892 | mg/kg | 53.7 | | 20 - 130 | | |
| Phenol | BZA0149-BS1 | LCS | 1.4766 | 1.6892 | mg/kg | 87.4 | | 40 - 120 | | |
| 2,4,6-Trichlorophenol | BZA0149-BS1 | LCS | 1.1717 | 1.6892 | mg/kg | 69.4 | | 50 - 130 | | |
| 2-Fluorophenol (Surrogate) | BZA0149-BS1 | LCS | 1.3564 | 1.6892 | mg/kg | 80.3 | | 20 - 130 | | |
| Phenol-d5 (Surrogate) | BZA0149-BS1 | LCS | 1.3558 | 1.6892 | mg/kg | 80.3 | | 30 - 130 | | |
| Nitrobenzene-d5 (Surrogate) | BZA0149-BS1 | LCS | 1.4018 | 1.6892 | mg/kg | 83.0 | | 30 - 130 | | |
| 2-Fluorobiphenyl (Surrogate) | BZA0149-BS1 | LCS | 1.4223 | 1.6892 | mg/kg | 84.2 | | 30 - 140 | | |
| 2,4,6-Tribromophenol (Surrogate) | BZA0149-BS1 | LCS | 1.3872 | 1.6892 | mg/kg | 82.1 | | 20 - 150 | | |
| p-Terphenyl-d14 (Surrogate) | BZA0149-BS1 | LCS | 0.53768 | 0.84459 | mg/kg | 63.7 | | 30 - 150 | | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Control Limits | | Lab Quals |
|-----------------------------|------|-----------------------|---------------|--------|-------------|-------|------|------------------|------------------|-----------|
| | | | | | | | | Percent Recovery | Percent Recovery | |
| QC Batch ID: BYL2622 | | Used client sample: N | | | | | | | | |
| Acenaphthene | MS | 1532390-04 | ND | 1.5023 | 1.6779 | mg/kg | | 89.5 | | 30 - 140 |
| | MSD | 1532390-04 | ND | 1.3527 | 1.6835 | mg/kg | 10.5 | 80.4 | 30 | 30 - 140 |
| 1,4-Dichlorobenzene | MS | 1532390-04 | ND | 1.5980 | 1.6779 | mg/kg | | 95.2 | | 50 - 130 |
| | MSD | 1532390-04 | ND | 1.4371 | 1.6835 | mg/kg | 10.6 | 85.4 | 30 | 50 - 130 |
| 2,4-Dinitrotoluene | MS | 1532390-04 | ND | 1.7289 | 1.6779 | mg/kg | | 103 | | 50 - 130 |
| | MSD | 1532390-04 | ND | 1.4368 | 1.6835 | mg/kg | 18.5 | 85.3 | 30 | 50 - 130 |
| Hexachlorobenzene | MS | 1532390-04 | ND | 1.4852 | 1.6779 | mg/kg | | 88.5 | | 50 - 130 |
| | MSD | 1532390-04 | ND | 1.3589 | 1.6835 | mg/kg | 8.9 | 80.7 | 30 | 50 - 130 |
| Hexachlorobutadiene | MS | 1532390-04 | ND | 1.4946 | 1.6779 | mg/kg | | 89.1 | | 50 - 130 |
| | MSD | 1532390-04 | ND | 1.3075 | 1.6835 | mg/kg | 13.4 | 77.7 | 30 | 50 - 130 |
| Hexachloroethane | MS | 1532390-04 | ND | 1.4668 | 1.6779 | mg/kg | | 87.4 | | 50 - 130 |
| | MSD | 1532390-04 | ND | 1.3388 | 1.6835 | mg/kg | 9.1 | 79.5 | 30 | 50 - 130 |
| Nitrobenzene | MS | 1532390-04 | ND | 1.7477 | 1.6779 | mg/kg | | 104 | | 30 - 120 |
| | MSD | 1532390-04 | ND | 1.5043 | 1.6835 | mg/kg | 15.0 | 89.4 | 30 | 30 - 120 |
| N-Nitrosodi-N-propylamine | MS | 1532390-04 | ND | 1.6359 | 1.6779 | mg/kg | | 97.5 | | 20 - 130 |
| | MSD | 1532390-04 | ND | 1.4704 | 1.6835 | mg/kg | 10.7 | 87.3 | 30 | 20 - 130 |
| Pyrene | MS | 1532390-04 | ND | 1.7366 | 1.6779 | mg/kg | | 104 | | 40 - 140 |
| | MSD | 1532390-04 | ND | 1.5282 | 1.6835 | mg/kg | 12.8 | 90.8 | 30 | 40 - 140 |
| 1,2,4-Trichlorobenzene | MS | 1532390-04 | ND | 1.5101 | 1.6779 | mg/kg | | 90.0 | | 50 - 130 |
| | MSD | 1532390-04 | ND | 1.3689 | 1.6835 | mg/kg | 9.8 | 81.3 | 30 | 50 - 130 |
| 4-Chloro-3-methylphenol | MS | 1532390-04 | ND | 1.4507 | 1.6779 | mg/kg | | 86.5 | | 50 - 130 |
| | MSD | 1532390-04 | ND | 1.3624 | 1.6835 | mg/kg | 6.3 | 80.9 | 30 | 50 - 130 |
| 2-Chlorophenol | MS | 1532390-04 | ND | 1.6537 | 1.6779 | mg/kg | | 98.6 | | 50 - 130 |
| | MSD | 1532390-04 | ND | 1.4914 | 1.6835 | mg/kg | 10.3 | 88.6 | 30 | 50 - 130 |
| 2-Methylphenol | MS | 1532390-04 | ND | 1.4406 | 1.6779 | mg/kg | | 85.9 | | 50 - 130 |
| | MSD | 1532390-04 | ND | 1.3275 | 1.6835 | mg/kg | 8.2 | 78.9 | 30 | 50 - 130 |
| 3- & 4-Methylphenol | MS | 1532390-04 | ND | 2.7604 | 3.3557 | mg/kg | | 82.3 | | 50 - 130 |
| | MSD | 1532390-04 | ND | 2.5377 | 3.3670 | mg/kg | 8.4 | 75.4 | 30 | 50 - 130 |
| 4-Nitrophenol | MS | 1532390-04 | ND | 1.2057 | 1.6779 | mg/kg | | 71.9 | | 30 - 140 |
| | MSD | 1532390-04 | ND | 1.0214 | 1.6835 | mg/kg | 16.5 | 60.7 | 30 | 30 - 140 |
| Pentachlorophenol | MS | 1532390-04 | ND | 1.1178 | 1.6779 | mg/kg | | 66.6 | | 30 - 130 |
| | MSD | 1532390-04 | ND | 1.0343 | 1.6835 | mg/kg | 7.8 | 61.4 | 30 | 30 - 130 |
| Phenol | MS | 1532390-04 | ND | 1.5084 | 1.6779 | mg/kg | | 89.9 | | 40 - 150 |
| | MSD | 1532390-04 | ND | 1.4171 | 1.6835 | mg/kg | 6.2 | 84.2 | 30 | 40 - 150 |
| 2,4,6-Trichlorophenol | MS | 1532390-04 | ND | 1.3577 | 1.6779 | mg/kg | | 80.9 | | 50 - 130 |
| | MSD | 1532390-04 | ND | 1.2121 | 1.6835 | mg/kg | 11.3 | 72.0 | 30 | 50 - 130 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch ID: BYL2622 and QC Batch ID: BZA0149.

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Control Limits | | Lab Quals |
|----------------------------------|------|---|---------------|---------|-------------|-------|------|------------------|------------------|-----------|
| | | | | | | | | Percent Recovery | Percent Recovery | |
| QC Batch ID: BZA0149 | | Used client sample: Y - Description: B3-d25.5, 12/22/2015 07:50 | | | | | | | | |
| 2-Methylphenol | MS | 1532856-20 | ND | 1.3066 | 1.6949 | mg/kg | | 77.1 | | 50 - 130 |
| | MSD | 1532856-20 | ND | 1.3207 | 1.6949 | mg/kg | 1.1 | 77.9 | 30 | 50 - 130 |
| 3- & 4-Methylphenol | MS | 1532856-20 | ND | 2.3616 | 3.3898 | mg/kg | | 69.7 | | 50 - 130 |
| | MSD | 1532856-20 | ND | 2.4047 | 3.3898 | mg/kg | 1.8 | 70.9 | 30 | 50 - 130 |
| 4-Nitrophenol | MS | 1532856-20 | ND | 1.5770 | 1.6949 | mg/kg | | 93.0 | | 30 - 140 |
| | MSD | 1532856-20 | ND | 1.4186 | 1.6949 | mg/kg | 10.6 | 83.7 | 30 | 30 - 140 |
| Pentachlorophenol | MS | 1532856-20 | ND | 1.2867 | 1.6949 | mg/kg | | 75.9 | | 30 - 130 |
| | MSD | 1532856-20 | ND | 1.2647 | 1.6949 | mg/kg | 1.7 | 74.6 | 30 | 30 - 130 |
| Phenol | MS | 1532856-20 | ND | 1.3951 | 1.6949 | mg/kg | | 82.3 | | 40 - 150 |
| | MSD | 1532856-20 | ND | 1.4156 | 1.6949 | mg/kg | 1.5 | 83.5 | 30 | 40 - 150 |
| 2,4,6-Trichlorophenol | MS | 1532856-20 | ND | 1.2343 | 1.6949 | mg/kg | | 72.8 | | 50 - 130 |
| | MSD | 1532856-20 | ND | 1.1769 | 1.6949 | mg/kg | 4.8 | 69.4 | 30 | 50 - 130 |
| 2-Fluorophenol (Surrogate) | MS | 1532856-20 | ND | 1.3713 | 1.6949 | mg/kg | | 80.9 | | 20 - 130 |
| | MSD | 1532856-20 | ND | 1.3858 | 1.6949 | mg/kg | 1.0 | 81.8 | | 20 - 130 |
| Phenol-d5 (Surrogate) | MS | 1532856-20 | ND | 1.3300 | 1.6949 | mg/kg | | 78.5 | | 30 - 130 |
| | MSD | 1532856-20 | ND | 1.3275 | 1.6949 | mg/kg | 0.2 | 78.3 | | 30 - 130 |
| Nitrobenzene-d5 (Surrogate) | MS | 1532856-20 | ND | 1.3170 | 1.6949 | mg/kg | | 77.7 | | 30 - 130 |
| | MSD | 1532856-20 | ND | 1.3244 | 1.6949 | mg/kg | 0.6 | 78.1 | | 30 - 130 |
| 2-Fluorobiphenyl (Surrogate) | MS | 1532856-20 | ND | 1.3173 | 1.6949 | mg/kg | | 77.7 | | 30 - 140 |
| | MSD | 1532856-20 | ND | 1.3146 | 1.6949 | mg/kg | 0.2 | 77.6 | | 30 - 140 |
| 2,4,6-Tribromophenol (Surrogate) | MS | 1532856-20 | ND | 1.4166 | 1.6949 | mg/kg | | 83.6 | | 20 - 150 |
| | MSD | 1532856-20 | ND | 1.3586 | 1.6949 | mg/kg | 4.2 | 80.2 | | 20 - 150 |
| p-Terphenyl-d14 (Surrogate) | MS | 1532856-20 | ND | 0.51873 | 0.84746 | mg/kg | | 61.2 | | 30 - 150 |
| | MSD | 1532856-20 | ND | 0.52373 | 0.84746 | mg/kg | 1.0 | 61.8 | | 30 - 150 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|--------------------------------|---------------------|-------------|----------|-----------------------------|-----|-----------|
| QC Batch ID: BYL2593 | | | | | | |
| TPH - Gasoline | BYL2593-BLK1 | ND | mg/kg | 20 | 5.0 | |
| TPH - Diesel (FFP) | BYL2593-BLK1 | ND | mg/kg | 10 | 1.2 | |
| TPH - Motor Oil | BYL2593-BLK1 | ND | mg/kg | 20 | 6.5 | |
| Tetracosane (Surrogate) | BYL2593-BLK1 | 62.0 | % | 20 - 145 (LCL - UCL) | | |
| QC Batch ID: BZA0028 | | | | | | |
| TPH - Gasoline | BZA0028-BLK1 | ND | mg/kg | 20 | 5.0 | |
| TPH - Diesel (FFP) | BZA0028-BLK1 | ND | mg/kg | 10 | 1.2 | |
| TPH - Motor Oil | BZA0028-BLK1 | ND | mg/kg | 20 | 6.5 | |
| Tetracosane (Surrogate) | BZA0028-BLK1 | 57.2 | % | 20 - 145 (LCL - UCL) | | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab |
|-----------------------------|--------------|------|--------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYL2593 | | | | | | | | | | |
| TPH - Diesel (FFP) | BYL2593-BS1 | LCS | 69.915 | 83.333 | mg/kg | 83.9 | | 64 - 124 | | |
| Tetracosane (Surrogate) | BYL2593-BS1 | LCS | 2.2763 | 3.3333 | mg/kg | 68.3 | | 20 - 145 | | |
| QC Batch ID: BZA0028 | | | | | | | | | | |
| TPH - Diesel (FFP) | BZA0028-BS1 | LCS | 69.326 | 84.175 | mg/kg | 82.4 | | 64 - 124 | | |
| Tetracosane (Surrogate) | BZA0028-BS1 | LCS | 2.2111 | 3.3670 | mg/kg | 65.7 | | 20 - 145 | | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent | | Lab Quals |
|-----------------------------|------|--|------------------|--------|----------------|-------|------|----------|-----|--------------|
| | | | | | | | | Recovery | RPD | |
| QC Batch ID: BYL2593 | | Used client sample: N | | | | | | | | |
| TPH - Diesel (FFP) | MS | 1532390-06 | ND | 66.370 | 84.746 | mg/kg | | 78.3 | | 52 - 131 |
| | MSD | 1532390-06 | ND | 74.440 | 82.508 | mg/kg | 11.5 | 90.2 | 30 | 52 - 131 |
| Tetracosane (Surrogate) | MS | 1532390-06 | ND | 2.1154 | 3.3898 | mg/kg | | 62.4 | | 20 - 145 |
| | MSD | 1532390-06 | ND | 2.3483 | 3.3003 | mg/kg | 10.4 | 71.2 | | 20 - 145 |
| QC Batch ID: BZA0028 | | Used client sample: Y - Description: B2-40.0, 12/21/2015 07:55 | | | | | | | | |
| TPH - Diesel (FFP) | MS | 1532856-08 | ND | 59.334 | 83.893 | mg/kg | | 70.7 | | 52 - 131 |
| | MSD | 1532856-08 | ND | 64.125 | 84.746 | mg/kg | 7.8 | 75.7 | 30 | 52 - 131 |
| Tetracosane (Surrogate) | MS | 1532856-08 | ND | 1.8846 | 3.3557 | mg/kg | | 56.2 | | 20 - 145 |
| | MSD | 1532856-08 | ND | 2.0759 | 3.3898 | mg/kg | 9.7 | 61.2 | | 20 - 145 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Modified WET Test (STLC)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|------|-------|-----------|
| QC Batch ID: BZA0427 | | | | | | |
| Hexavalent Chromium | BZA0427-BLK1 | ND | mg/L | 0.20 | 0.070 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Modified WET Test (STLC)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab |
|-----------------------------|--------------|------|--------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BZA0427 | | | | | | | | | | |
| Hexavalent Chromium | BZA0427-BS1 | LCS | 5.0994 | 5.0000 | mg/L | 102 | | 85 | 115 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Modified WET Test (STLC)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits | | Lab Quals |
|-----------------------------|------|-----------------------|------------------|--------|----------------|-------|-----|---------------------|----------------|---------------------|--------------|
| | | | | | | | | | RPD | Percent Recovery | |
| QC Batch ID: BZA0427 | | Used client sample: N | | | | | | | | | |
| Hexavalent Chromium | DUP | 1532698-01 | 0.49130 | ND | | mg/L | | | 20 | | |
| | MS | 1532698-01 | 0.49130 | 5.2200 | 5.2632 | mg/L | | 89.8 | | 85 - 115 | |
| | MSD | 1532698-01 | 0.49130 | 5.2185 | 5.2632 | mg/L | 0.0 | 89.8 | 20 | 85 - 115 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

WET Test (STLC)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|------|-------|-----------|
| QC Batch ID: BZA0383 | | | | | | |
| Nickel | BZA0383-BLK1 | ND | mg/L | 0.10 | 0.026 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

WET Test (STLC)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab |
|-----------------------------|--------------|------|--------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BZA0383 | | | | | | | | | | |
| Nickel | BZA0383-BS1 | LCS | 18.895 | 20.000 | mg/L | 94.5 | | 85 | 115 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

WET Test (STLC)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | Control Limits | | Lab Quals |
|-----------------------------|------|-----------------------|------------------|--------|----------------|-------|-----|---------------------|----------------|---------------------|--------------|
| | | | | | | | | | RPD | Percent Recovery | |
| QC Batch ID: BZA0383 | | Used client sample: N | | | | | | | | | |
| Nickel | DUP | 1533060-01 | 1.0674 | 1.0393 | | mg/L | 2.7 | | 20 | | |
| | MS | 1533060-01 | 1.0674 | 20.541 | 20.408 | mg/L | | 95.4 | | 75 - 125 | |
| | MSD | 1533060-01 | 1.0674 | 20.122 | 20.408 | mg/L | 2.1 | 93.4 | 20 | 75 - 125 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-------------|--------------|-----------|-------|-----|-----|-----------|
|-------------|--------------|-----------|-------|-----|-----|-----------|

QC Batch ID: BYL2346

| | | | | | | |
|-------------------|---------------------|-----------------|--------------|------------|--------------|----------|
| Antimony | BYL2346-BLK1 | ND | mg/kg | 5.0 | 0.33 | |
| Arsenic | BYL2346-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Barium | BYL2346-BLK1 | ND | mg/kg | 0.50 | 0.18 | |
| Beryllium | BYL2346-BLK1 | ND | mg/kg | 0.50 | 0.047 | |
| Cadmium | BYL2346-BLK1 | ND | mg/kg | 0.50 | 0.052 | |
| Chromium | BYL2346-BLK1 | ND | mg/kg | 0.50 | 0.050 | |
| Cobalt | BYL2346-BLK1 | ND | mg/kg | 2.5 | 0.098 | |
| Copper | BYL2346-BLK1 | 0.27279 | mg/kg | 1.0 | 0.050 | J |
| Lead | BYL2346-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| Molybdenum | BYL2346-BLK1 | 0.083405 | mg/kg | 2.5 | 0.050 | J |
| Nickel | BYL2346-BLK1 | ND | mg/kg | 0.50 | 0.15 | |
| Selenium | BYL2346-BLK1 | ND | mg/kg | 1.0 | 0.98 | |
| Silver | BYL2346-BLK1 | ND | mg/kg | 0.50 | 0.067 | |
| Thallium | BYL2346-BLK1 | ND | mg/kg | 5.0 | 0.64 | |
| Vanadium | BYL2346-BLK1 | ND | mg/kg | 0.50 | 0.11 | |
| Zinc | BYL2346-BLK1 | 0.25332 | mg/kg | 2.5 | 0.087 | J |

QC Batch ID: BYL2347

| | | | | | | |
|-----------------|---------------------|-----------------|--------------|-------------|--------------|----------|
| Antimony | BYL2347-BLK1 | ND | mg/kg | 5.0 | 0.33 | |
| Arsenic | BYL2347-BLK1 | ND | mg/kg | 1.0 | 0.40 | |
| Barium | BYL2347-BLK1 | ND | mg/kg | 0.50 | 0.18 | |
| Beryllium | BYL2347-BLK1 | ND | mg/kg | 0.50 | 0.047 | |
| Cadmium | BYL2347-BLK1 | ND | mg/kg | 0.50 | 0.052 | |
| Chromium | BYL2347-BLK1 | 0.080361 | mg/kg | 0.50 | 0.050 | J |
| Cobalt | BYL2347-BLK1 | ND | mg/kg | 2.5 | 0.098 | |
| Copper | BYL2347-BLK1 | ND | mg/kg | 1.0 | 0.050 | |
| Lead | BYL2347-BLK1 | ND | mg/kg | 2.5 | 0.28 | |
| Molybdenum | BYL2347-BLK1 | ND | mg/kg | 2.5 | 0.050 | |
| Nickel | BYL2347-BLK1 | ND | mg/kg | 0.50 | 0.15 | |
| Selenium | BYL2347-BLK1 | ND | mg/kg | 1.0 | 0.98 | |
| Silver | BYL2347-BLK1 | ND | mg/kg | 0.50 | 0.067 | |
| Thallium | BYL2347-BLK1 | ND | mg/kg | 5.0 | 0.64 | |
| Vanadium | BYL2347-BLK1 | ND | mg/kg | 0.50 | 0.11 | |
| Zinc | BYL2347-BLK1 | 1.8606 | mg/kg | 2.5 | 0.087 | J |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|------|-------|-----------|
| QC Batch ID: BYL2591 | | | | | | |
| Mercury | BYL2591-BLK1 | ND | mg/kg | 0.16 | 0.036 | |
| QC Batch ID: BYL2592 | | | | | | |
| Mercury | BYL2592-BLK1 | ND | mg/kg | 0.16 | 0.036 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab Quals |
|-----------------------------|--------------|------|--------|-------------|-------|------------------|-----|------------------|-----|--------------|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYL2346 | | | | | | | | | | |
| Antimony | BYL2346-BS1 | LCS | 98.111 | 100.00 | mg/kg | 98.1 | | 75 | 125 | |
| Arsenic | BYL2346-BS1 | LCS | 9.1046 | 10.000 | mg/kg | 91.0 | | 75 | 125 | |
| Barium | BYL2346-BS1 | LCS | 107.06 | 100.00 | mg/kg | 107 | | 75 | 125 | |
| Beryllium | BYL2346-BS1 | LCS | 9.2348 | 10.000 | mg/kg | 92.3 | | 75 | 125 | |
| Cadmium | BYL2346-BS1 | LCS | 9.6619 | 10.000 | mg/kg | 96.6 | | 75 | 125 | |
| Chromium | BYL2346-BS1 | LCS | 100.96 | 100.00 | mg/kg | 101 | | 75 | 125 | |
| Cobalt | BYL2346-BS1 | LCS | 97.820 | 100.00 | mg/kg | 97.8 | | 75 | 125 | |
| Copper | BYL2346-BS1 | LCS | 97.506 | 100.00 | mg/kg | 97.5 | | 75 | 125 | |
| Lead | BYL2346-BS1 | LCS | 96.274 | 100.00 | mg/kg | 96.3 | | 75 | 125 | |
| Molybdenum | BYL2346-BS1 | LCS | 98.040 | 100.00 | mg/kg | 98.0 | | 75 | 125 | |
| Nickel | BYL2346-BS1 | LCS | 103.68 | 100.00 | mg/kg | 104 | | 75 | 125 | |
| Selenium | BYL2346-BS1 | LCS | 9.0796 | 10.000 | mg/kg | 90.8 | | 75 | 125 | |
| Silver | BYL2346-BS1 | LCS | 9.6150 | 10.000 | mg/kg | 96.1 | | 75 | 125 | |
| Thallium | BYL2346-BS1 | LCS | 106.79 | 100.00 | mg/kg | 107 | | 75 | 125 | |
| Vanadium | BYL2346-BS1 | LCS | 104.91 | 100.00 | mg/kg | 105 | | 75 | 125 | |
| Zinc | BYL2346-BS1 | LCS | 94.568 | 100.00 | mg/kg | 94.6 | | 75 | 125 | |
| QC Batch ID: BYL2347 | | | | | | | | | | |
| Antimony | BYL2347-BS1 | LCS | 104.55 | 100.00 | mg/kg | 105 | | 75 | 125 | |
| Arsenic | BYL2347-BS1 | LCS | 9.5190 | 10.000 | mg/kg | 95.2 | | 75 | 125 | |
| Barium | BYL2347-BS1 | LCS | 107.04 | 100.00 | mg/kg | 107 | | 75 | 125 | |
| Beryllium | BYL2347-BS1 | LCS | 9.6213 | 10.000 | mg/kg | 96.2 | | 75 | 125 | |
| Cadmium | BYL2347-BS1 | LCS | 10.214 | 10.000 | mg/kg | 102 | | 75 | 125 | |
| Chromium | BYL2347-BS1 | LCS | 105.67 | 100.00 | mg/kg | 106 | | 75 | 125 | |
| Cobalt | BYL2347-BS1 | LCS | 102.45 | 100.00 | mg/kg | 102 | | 75 | 125 | |
| Copper | BYL2347-BS1 | LCS | 102.93 | 100.00 | mg/kg | 103 | | 75 | 125 | |
| Lead | BYL2347-BS1 | LCS | 100.80 | 100.00 | mg/kg | 101 | | 75 | 125 | |
| Molybdenum | BYL2347-BS1 | LCS | 103.93 | 100.00 | mg/kg | 104 | | 75 | 125 | |
| Nickel | BYL2347-BS1 | LCS | 109.15 | 100.00 | mg/kg | 109 | | 75 | 125 | |
| Selenium | BYL2347-BS1 | LCS | 10.170 | 10.000 | mg/kg | 102 | | 75 | 125 | |
| Silver | BYL2347-BS1 | LCS | 10.061 | 10.000 | mg/kg | 101 | | 75 | 125 | |
| Thallium | BYL2347-BS1 | LCS | 112.60 | 100.00 | mg/kg | 113 | | 75 | 125 | |
| Vanadium | BYL2347-BS1 | LCS | 110.86 | 100.00 | mg/kg | 111 | | 75 | 125 | |
| Zinc | BYL2347-BS1 | LCS | 100.61 | 100.00 | mg/kg | 101 | | 75 | 125 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab |
|-----------------------------|--------------|------|---------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYL2591 | | | | | | | | | | |
| Mercury | BYL2591-BS1 | LCS | 0.73680 | 0.80000 | mg/kg | 92.1 | | 80 | 120 | |
| QC Batch ID: BYL2592 | | | | | | | | | | |
| Mercury | BYL2592-BS1 | LCS | 0.82736 | 0.80000 | mg/kg | 103 | | 80 | 120 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Control Limits | | Lab |
|-----------------------------|------|---|----------------|-----------------|---------------|--------------|-------------|------------------|-----------|-----------------|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYL2346 | | Used client sample: Y - Description: B3-d25.5, 12/22/2015 07:50 | | | | | | | | |
| Antimony | DUP | 1532856-20 | ND | ND | | mg/kg | | | 20 | |
| | MS | 1532856-20 | ND | 40.600 | 100.00 | mg/kg | | 40.6 | | 16 - 119 |
| | MSD | 1532856-20 | ND | 39.871 | 100.00 | mg/kg | 1.8 | 39.9 | 20 | 16 - 119 |
| Arsenic | DUP | 1532856-20 | 4.6662 | 5.1751 | | mg/kg | 10.3 | | 20 | |
| | MS | 1532856-20 | 4.6662 | 13.554 | 10.000 | mg/kg | | 88.9 | | 75 - 125 |
| | MSD | 1532856-20 | 4.6662 | 13.511 | 10.000 | mg/kg | 0.3 | 88.4 | 20 | 75 - 125 |
| Barium | DUP | 1532856-20 | 114.81 | 113.72 | | mg/kg | 0.9 | | 20 | |
| | MS | 1532856-20 | 114.81 | 217.10 | 100.00 | mg/kg | | 102 | | 75 - 125 |
| | MSD | 1532856-20 | 114.81 | 216.10 | 100.00 | mg/kg | 0.5 | 101 | 20 | 75 - 125 |
| Beryllium | DUP | 1532856-20 | 0.39401 | 0.37547 | | mg/kg | 4.8 | | 20 | J |
| | MS | 1532856-20 | 0.39401 | 8.9788 | 10.000 | mg/kg | | 85.8 | | 75 - 125 |
| | MSD | 1532856-20 | 0.39401 | 9.0372 | 10.000 | mg/kg | 0.6 | 86.4 | 20 | 75 - 125 |
| Cadmium | DUP | 1532856-20 | ND | ND | | mg/kg | | | 20 | |
| | MS | 1532856-20 | ND | 8.6723 | 10.000 | mg/kg | | 86.7 | | 75 - 125 |
| | MSD | 1532856-20 | ND | 8.6679 | 10.000 | mg/kg | 0.1 | 86.7 | 20 | 75 - 125 |
| Chromium | DUP | 1532856-20 | 33.039 | 31.664 | | mg/kg | 4.2 | | 20 | |
| | MS | 1532856-20 | 33.039 | 123.86 | 100.00 | mg/kg | | 90.8 | | 75 - 125 |
| | MSD | 1532856-20 | 33.039 | 124.23 | 100.00 | mg/kg | 0.3 | 91.2 | 20 | 75 - 125 |
| Cobalt | DUP | 1532856-20 | 12.681 | 12.140 | | mg/kg | 4.4 | | 20 | |
| | MS | 1532856-20 | 12.681 | 93.927 | 100.00 | mg/kg | | 81.2 | | 75 - 125 |
| | MSD | 1532856-20 | 12.681 | 95.293 | 100.00 | mg/kg | 1.4 | 82.6 | 20 | 75 - 125 |
| Copper | DUP | 1532856-20 | 17.558 | 16.822 | | mg/kg | 4.3 | | 20 | |
| | MS | 1532856-20 | 17.558 | 104.24 | 100.00 | mg/kg | | 86.7 | | 75 - 125 |
| | MSD | 1532856-20 | 17.558 | 105.42 | 100.00 | mg/kg | 1.1 | 87.9 | 20 | 75 - 125 |
| Lead | DUP | 1532856-20 | 6.0842 | 5.5383 | | mg/kg | 9.4 | | 20 | |
| | MS | 1532856-20 | 6.0842 | 94.080 | 100.00 | mg/kg | | 88.0 | | 75 - 125 |
| | MSD | 1532856-20 | 6.0842 | 93.742 | 100.00 | mg/kg | 0.4 | 87.7 | 20 | 75 - 125 |
| Molybdenum | DUP | 1532856-20 | 0.12234 | 0.058880 | | mg/kg | 70.0 | | 20 | J,A02 |
| | MS | 1532856-20 | 0.12234 | 79.375 | 100.00 | mg/kg | | 79.3 | | 75 - 125 |
| | MSD | 1532856-20 | 0.12234 | 79.606 | 100.00 | mg/kg | 0.3 | 79.5 | 20 | 75 - 125 |
| Nickel | DUP | 1532856-20 | 64.815 | 61.440 | | mg/kg | 5.3 | | 20 | |
| | MS | 1532856-20 | 64.815 | 151.82 | 100.00 | mg/kg | | 87.0 | | 75 - 125 |
| | MSD | 1532856-20 | 64.815 | 152.88 | 100.00 | mg/kg | 0.7 | 88.1 | 20 | 75 - 125 |
| Selenium | DUP | 1532856-20 | ND | ND | | mg/kg | | | 20 | |
| | MS | 1532856-20 | ND | 8.2247 | 10.000 | mg/kg | | 82.2 | | 75 - 125 |
| | MSD | 1532856-20 | ND | 7.9105 | 10.000 | mg/kg | 3.9 | 79.1 | 20 | 75 - 125 |
| Silver | DUP | 1532856-20 | 0.21456 | 0.17806 | | mg/kg | 18.6 | | 20 | J |
| | MS | 1532856-20 | 0.21456 | 8.8952 | 10.000 | mg/kg | | 86.8 | | 75 - 125 |
| | MSD | 1532856-20 | 0.21456 | 8.9002 | 10.000 | mg/kg | 0.1 | 86.9 | 20 | 75 - 125 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Control Limits | | Lab |
|-----------------------------|------|---|---------------|---------|-------------|-------|------|------------------|------------------|-----|
| | | | | | | | | Percent Recovery | Percent Recovery | |
| QC Batch ID: BYL2346 | | Used client sample: Y - Description: B3-d25.5, 12/22/2015 07:50 | | | | | | | | |
| Thallium | DUP | 1532856-20 | 0.93937 | 0.82674 | | mg/kg | 12.8 | | 20 | J |
| | MS | 1532856-20 | 0.93937 | 89.760 | 100.00 | mg/kg | | 88.8 | 75 - 125 | |
| | MSD | 1532856-20 | 0.93937 | 90.209 | 100.00 | mg/kg | 0.5 | 89.3 | 20 75 - 125 | |
| Vanadium | DUP | 1532856-20 | 31.451 | 30.509 | | mg/kg | 3.0 | | 20 | |
| | MS | 1532856-20 | 31.451 | 126.13 | 100.00 | mg/kg | | 94.7 | 75 - 125 | |
| | MSD | 1532856-20 | 31.451 | 125.69 | 100.00 | mg/kg | 0.3 | 94.2 | 20 75 - 125 | |
| Zinc | DUP | 1532856-20 | 35.782 | 34.478 | | mg/kg | 3.7 | | 20 | |
| | MS | 1532856-20 | 35.782 | 117.26 | 100.00 | mg/kg | | 81.5 | 75 - 125 | |
| | MSD | 1532856-20 | 35.782 | 118.50 | 100.00 | mg/kg | 1.1 | 82.7 | 20 75 - 125 | |
| QC Batch ID: BYL2347 | | Used client sample: Y - Description: B3-d30.5, 12/22/2015 07:59 | | | | | | | | |
| Antimony | DUP | 1532856-21 | ND | ND | | mg/kg | | | 20 | |
| | MS | 1532856-21 | ND | 38.267 | 100.00 | mg/kg | | 38.3 | 16 - 119 | |
| | MSD | 1532856-21 | ND | 37.766 | 100.00 | mg/kg | 1.3 | 37.8 | 20 16 - 119 | |
| Arsenic | DUP | 1532856-21 | 4.9286 | 4.9843 | | mg/kg | 1.1 | | 20 | |
| | MS | 1532856-21 | 4.9286 | 14.315 | 10.000 | mg/kg | | 93.9 | 75 - 125 | |
| | MSD | 1532856-21 | 4.9286 | 13.938 | 10.000 | mg/kg | 2.7 | 90.1 | 20 75 - 125 | |
| Barium | DUP | 1532856-21 | 85.931 | 93.405 | | mg/kg | 8.3 | | 20 | |
| | MS | 1532856-21 | 85.931 | 183.69 | 100.00 | mg/kg | | 97.8 | 75 - 125 | |
| | MSD | 1532856-21 | 85.931 | 185.54 | 100.00 | mg/kg | 1.0 | 99.6 | 20 75 - 125 | |
| Beryllium | DUP | 1532856-21 | 0.28006 | 0.29567 | | mg/kg | 5.4 | | 20 | J |
| | MS | 1532856-21 | 0.28006 | 9.0135 | 10.000 | mg/kg | | 87.3 | 75 - 125 | |
| | MSD | 1532856-21 | 0.28006 | 8.9477 | 10.000 | mg/kg | 0.7 | 86.7 | 20 75 - 125 | |
| Cadmium | DUP | 1532856-21 | ND | ND | | mg/kg | | | 20 | |
| | MS | 1532856-21 | ND | 8.9278 | 10.000 | mg/kg | | 89.3 | 75 - 125 | |
| | MSD | 1532856-21 | ND | 8.8248 | 10.000 | mg/kg | 1.2 | 88.2 | 20 75 - 125 | |
| Chromium | DUP | 1532856-21 | 65.378 | 62.372 | | mg/kg | 4.7 | | 20 | |
| | MS | 1532856-21 | 65.378 | 149.54 | 100.00 | mg/kg | | 84.2 | 75 - 125 | |
| | MSD | 1532856-21 | 65.378 | 149.76 | 100.00 | mg/kg | 0.2 | 84.4 | 20 75 - 125 | |
| Cobalt | DUP | 1532856-21 | 15.141 | 16.794 | | mg/kg | 10.4 | | 20 | |
| | MS | 1532856-21 | 15.141 | 99.569 | 100.00 | mg/kg | | 84.4 | 75 - 125 | |
| | MSD | 1532856-21 | 15.141 | 98.041 | 100.00 | mg/kg | 1.5 | 82.9 | 20 75 - 125 | |
| Copper | DUP | 1532856-21 | 24.156 | 25.672 | | mg/kg | 6.1 | | 20 | |
| | MS | 1532856-21 | 24.156 | 114.80 | 100.00 | mg/kg | | 90.6 | 75 - 125 | |
| | MSD | 1532856-21 | 24.156 | 113.90 | 100.00 | mg/kg | 0.8 | 89.7 | 20 75 - 125 | |
| Lead | DUP | 1532856-21 | 5.3298 | 5.6663 | | mg/kg | 6.1 | | 20 | |
| | MS | 1532856-21 | 5.3298 | 95.774 | 100.00 | mg/kg | | 90.4 | 75 - 125 | |
| | MSD | 1532856-21 | 5.3298 | 93.661 | 100.00 | mg/kg | 2.2 | 88.3 | 20 75 - 125 | |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Control Limits | | Lab |
|-----------------------------|------|---|---------------|---------|-------------|-------|-----|------------------|------------------|----------|
| | | | | | | | | Percent Recovery | Percent Recovery | |
| QC Batch ID: BYL2347 | | Used client sample: Y - Description: B3-d30.5, 12/22/2015 07:59 | | | | | | | | |
| Molybdenum | DUP | 1532856-21 | ND | ND | | mg/kg | | | 20 | |
| | MS | 1532856-21 | ND | 83.764 | 100.00 | mg/kg | | 83.8 | | 75 - 125 |
| | MSD | 1532856-21 | ND | 83.036 | 100.00 | mg/kg | 0.9 | 83.0 | 20 | 75 - 125 |
| Nickel | DUP | 1532856-21 | 167.52 | 182.09 | | mg/kg | 8.3 | | 20 | |
| | MS | 1532856-21 | 167.52 | 258.92 | 100.00 | mg/kg | | 91.4 | | 75 - 125 |
| | MSD | 1532856-21 | 167.52 | 254.14 | 100.00 | mg/kg | 1.9 | 86.6 | 20 | 75 - 125 |
| Selenium | DUP | 1532856-21 | ND | ND | | mg/kg | | | 20 | |
| | MS | 1532856-21 | ND | 8.3035 | 10.000 | mg/kg | | 83.0 | | 75 - 125 |
| | MSD | 1532856-21 | ND | 8.5065 | 10.000 | mg/kg | 2.4 | 85.1 | 20 | 75 - 125 |
| Silver | DUP | 1532856-21 | 0.31628 | 0.33316 | | mg/kg | 5.2 | | 20 | J |
| | MS | 1532856-21 | 0.31628 | 9.3092 | 10.000 | mg/kg | | 89.9 | | 75 - 125 |
| | MSD | 1532856-21 | 0.31628 | 9.2692 | 10.000 | mg/kg | 0.4 | 89.5 | 20 | 75 - 125 |
| Thallium | DUP | 1532856-21 | 1.0512 | 0.97772 | | mg/kg | 7.2 | | 20 | J |
| | MS | 1532856-21 | 1.0512 | 91.251 | 100.00 | mg/kg | | 90.2 | | 75 - 125 |
| | MSD | 1532856-21 | 1.0512 | 89.851 | 100.00 | mg/kg | 1.5 | 88.8 | 20 | 75 - 125 |
| Vanadium | DUP | 1532856-21 | 30.343 | 32.434 | | mg/kg | 6.7 | | 20 | |
| | MS | 1532856-21 | 30.343 | 126.26 | 100.00 | mg/kg | | 95.9 | | 75 - 125 |
| | MSD | 1532856-21 | 30.343 | 125.44 | 100.00 | mg/kg | 0.6 | 95.1 | 20 | 75 - 125 |
| Zinc | DUP | 1532856-21 | 42.417 | 43.979 | | mg/kg | 3.6 | | 20 | |
| | MS | 1532856-21 | 42.417 | 127.82 | 100.00 | mg/kg | | 85.4 | | 75 - 125 |
| | MSD | 1532856-21 | 42.417 | 127.20 | 100.00 | mg/kg | 0.5 | 84.8 | 20 | 75 - 125 |
| QC Batch ID: BYL2591 | | Used client sample: N | | | | | | | | |
| Mercury | DUP | 1532978-01 | ND | ND | | mg/kg | | | 20 | |
| | MS | 1532978-01 | ND | 0.88328 | 0.81967 | mg/kg | | 108 | | 80 - 120 |
| | MSD | 1532978-01 | ND | 0.84754 | 0.81967 | mg/kg | 4.1 | 103 | 20 | 80 - 120 |
| QC Batch ID: BYL2592 | | Used client sample: Y - Description: B3-d20.5, 12/22/2015 07:40 | | | | | | | | |
| Mercury | DUP | 1532856-19 | ND | ND | | mg/kg | | | 20 | |
| | MS | 1532856-19 | ND | 0.88516 | 0.80645 | mg/kg | | 110 | | 80 - 120 |
| | MSD | 1532856-19 | ND | 0.86290 | 0.80645 | mg/kg | 2.5 | 107 | 20 | 80 - 120 |

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E & B Natural Resources Management Corp.
1600 Norris Road
Bakersfield, CA 93308

Reported: 01/08/2016 14:36
Project: GIG
Project Number: [none]
Project Manager: Jennifer Brady

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.



Alpha

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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

ELAP Certificates 1551, 2728, and 2922

12 January 2016

Robert A Booher Consulting

Attn: Jeff Monroe

3287 Congressional Court

Fairfield, CA 94534

RE: Water Quality

Work Order: 15L2340

Enclosed are the results of analyses for samples received by the laboratory on 12/21/15 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For David S. Pingatore

Project Manager



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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------------------------|---------------|--------|----------------|----------------|
| Domestic Well #1 | 15L2340-01 | Water | 12/21/15 13:05 | 12/21/15 21:40 |
| Domestic Well #2 & Irrigation | 15L2340-02 | Water | 12/21/15 13:20 | 12/21/15 21:40 |



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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

| | Result | Reporting Limit | Dilution | Batch | Prepared | Analyzed | Method | Note |
|--|-------------------|---------------------------|----------|---------|--------------------------------|----------------|-----------|------|
| Domestic Well #1 (15L2340-01) | | Sample Type: Water | | | Sampled: 12/21/15 13:05 | | | |
| Metals by EPA 200 Series Methods | | | | | | | | |
| Antimony | ND mg/L | 0.020 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Arsenic | ND mg/L | 0.010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Barium | 0.017 mg/L | 0.010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Beryllium | ND mg/L | 0.0010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Cadmium | ND mg/L | 0.010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Chromium | ND mg/L | 0.010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Cobalt | ND mg/L | 0.010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Copper | ND mg/L | 0.020 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Lead | ND mg/L | 0.050 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Mercury | ND mg/L | 0.0010 | 1 | AA63145 | 01/04/16 10:31 | 01/05/16 14:27 | EPA 245.1 | |
| Molybdenum | ND mg/L | 0.50 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Nickel | ND mg/L | 0.010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Selenium | ND mg/L | 0.020 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Silver | ND mg/L | 0.010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Thallium | ND mg/L | 0.20 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Vanadium | ND mg/L | 0.020 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Zinc | 0.029 mg/L | 0.020 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 14:44 | EPA 200.7 | |
| Metals by EPA Method 200.8 ICP/MS | | | | | | | | |
| Copper | ND ug/L | 50 | 4 | AA63337 | 01/07/16 13:32 | 01/11/16 14:11 | EPA 200.8 | |
| Iron | ND ug/L | 100 | 4 | AA63337 | 01/07/16 13:32 | 01/11/16 14:11 | EPA 200.8 | |
| Manganese | ND ug/L | 20 | 4 | AA63337 | 01/07/16 13:32 | 01/11/16 14:11 | EPA 200.8 | |
| Zinc | ND ug/L | 50 | 4 | AA63337 | 01/07/16 13:32 | 01/11/16 14:11 | EPA 200.8 | |



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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

| | Result | Reporting Limit | Dilution | Batch | Prepared | Analyzed | Method | Note |
|--|------------------|---------------------------|----------|---------|--------------------------------|----------------|-----------|------|
| Domestic Well #1 (15L2340-01) | | Sample Type: Water | | | Sampled: 12/21/15 13:05 | | | |
| Conventional Chemistry Parameters by APHA/EPA Methods | | | | | | | | |
| Color | ND CU | 5.0 | 1 | AL53367 | 12/21/15 19:00 | 12/21/15 19:00 | SM2120B | |
| Odor | ND T.O.N. | 1.0 | 1 | AL53367 | 12/21/15 19:00 | 12/21/15 19:00 | EPA 140.1 | |
| Oil & Grease (HEM-SG) | ND mg/L | 5.0 | 1 | AA63184 | 01/05/16 07:23 | 01/08/16 16:35 | EPA 1664A | |
| Total Dissolved Solids | 1300 mg/L | 10 | 1 | AL53393 | 12/22/15 18:00 | 12/29/15 07:00 | SM2540C | |
| Turbidity | 0.41 NTU | 0.10 | 1 | AL53369 | 12/21/15 19:00 | 12/21/15 19:00 | SM2130B | |
| Anions by EPA Method 300.0 | | | | | | | | |
| Chloride | 310 mg/L | 25 | 50 | AL53394 | 12/22/15 23:09 | 12/22/15 23:09 | EPA 300.0 | |
| Fluoride | 1.2 mg/L | 0.10 | 1 | AL53394 | 12/22/15 23:09 | 12/22/15 23:09 | EPA 300.0 | |
| Nitrate as NO3 | 41 mg/L | 40 | 50 | AL53394 | 12/22/15 23:09 | 12/22/15 23:09 | EPA 300.0 | |
| Sulfate as SO4 | 250 mg/L | 25 | 50 | AL53394 | 12/22/15 23:09 | 12/22/15 23:09 | EPA 300.0 | |
| Microbiological Parameters by APHA Standard Methods | | | | | | | | |
| Total Coliforms | Absent . | 1 | 1 | AL53387 | 12/21/15 19:00 | 12/22/15 19:00 | Colisure | |
| E. Coli | Absent . | 1 | 1 | AL53387 | 12/21/15 19:00 | 12/22/15 19:00 | Colisure | |
| TPH by EPA/LUFT GC Methods | | | | | | | | |
| TPH as Diesel | ND ug/L | 250 | 1 | AL53404 | 12/23/15 07:29 | 12/31/15 07:54 | 8015DRO | |
| TPH as Motor Oil | ND ug/L | 250 | 1 | AL53404 | 12/23/15 07:29 | 12/31/15 07:54 | 8015DRO | |
| <i>Surrogate: Tetraetracontane</i> | 77.0 % | 60-120 | | AL53404 | 12/23/15 07:29 | 12/31/15 07:54 | 8015DRO | |
| TPH by EPA/LUFT GCMS Methods | | | | | | | | |
| TPH as Gasoline | ND ug/L | 50 | 1 | AL53416 | 12/23/15 09:00 | 12/23/15 15:19 | 8260GRO | |
| <i>Surrogate: Toluene-d8</i> | 96.0 % | 76-129 | | AL53416 | 12/23/15 09:00 | 12/23/15 15:19 | 8260GRO | |

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3287 Congressional Court
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Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

| | Result | Reporting Limit | Dilution | Batch | Prepared | Analyzed | Method | Note |
|---|---------|---------------------------|----------|---------|--------------------------------|----------------|-----------|------|
| Domestic Well #1 (15L2340-01) | | Sample Type: Water | | | Sampled: 12/21/15 13:05 | | | |
| Volatile Organic Compounds by EPA Method 8260B | | | | | | | | |
| Acetone | ND ug/L | 5.0 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Benzene | ND ug/L | 0.30 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Bromobenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Bromochloromethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Bromodichloromethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Bromoform | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Bromomethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| n-Butylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| sec-Butylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| tert-Butylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Carbon disulfide | ND ug/L | 5.0 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Carbon tetrachloride | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Chlorobenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Chloroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Chloroform | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Chloromethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| 2-Chlorotoluene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| 4-Chlorotoluene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Dibromochloromethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| 1,2-Dibromo-3-chloropropane | ND ug/L | 2.0 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| 1,2-Dibromoethane (EDB) | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Dibromomethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| 1,2-Dichlorobenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| 1,3-Dichlorobenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| 1,4-Dichlorobenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Dichlorodifluoromethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| 1,1-Dichloroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| 1,2-Dichloroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| 1,1-Dichloroethene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| 1,2-Dichloropropane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| 1,3-Dichloropropane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| 2,2-Dichloropropane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| 1,1-Dichloropropene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| cis-1,3-Dichloropropene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| trans-1,3-Dichloropropene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |
| Ethylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | |

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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

| | Result | Reporting Limit | Dilution | Batch | Prepared | Analyzed | Method | Note | |
|--|---------|---------------------------|----------|---------|--------------------------------|----------------|-----------|------|--|
| Domestic Well #1 (15L2340-01) | | Sample Type: Water | | | Sampled: 12/21/15 13:05 | | | | |
| Volatile Organic Compounds by EPA Method 8260B (cont'd) | | | | | | | | | |
| 2-Hexanone | ND ug/L | 5.0 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Hexachlorobutadiene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Isopropylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| p-Isopropyltoluene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Methyl ethyl ketone | ND ug/L | 1.0 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Methyl isobutyl ketone | ND ug/L | 1.0 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Methyl tert-butyl ether | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Methylene chloride | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Naphthalene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| n-Propylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Styrene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| 1,1,1,2-Tetrachloroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| 1,1,2,2-Tetrachloroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Tetrachloroethene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Toluene | ND ug/L | 0.30 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| 1,2,3-Trichlorobenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| 1,2,4-Trichlorobenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| 1,1,1-Trichloroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| 1,1,2-Trichloroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Trichloroethene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Trichlorofluoromethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Trichlorotrifluoroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| 1,2,3-Trichloropropane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| 1,2,4-Trimethylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| 1,3,5-Trimethylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Vinyl acetate | ND ug/L | 1.0 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Vinyl chloride | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| m,p-Xylene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| o-Xylene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Xylenes (total) | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Surrogate: Dibromofluoromethane | 80.4 % | 46-130 | | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Surrogate: Toluene-d8 | 96.8 % | 59-132 | | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |
| Surrogate: Bromofluorobenzene | 95.4 % | 81-135 | | AL53417 | 12/23/15 09:00 | 12/23/15 15:19 | EPA 8260B | | |

Domestic Well #2 & Irrigation (15L2340-02)

Sample Type: Water

Sampled: 12/21/15 13:20

Metals by EPA 200 Series Methods

| | | | | | | | | |
|----------|---------|-------|---|---------|----------------|----------------|-----------|--|
| Antimony | ND mg/L | 0.020 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | |
| Arsenic | ND mg/L | 0.010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | |

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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

| | Result | Reporting Limit | Dilution | Batch | Prepared | Analyzed | Method | Note | |
|--|-------------------|---------------------------|----------|---------|--------------------------------|----------------|-----------|------|--|
| Domestic Well #2 & Irrigation (15L2340-02) | | Sample Type: Water | | | Sampled: 12/21/15 13:20 | | | | |
| Metals by EPA 200 Series Methods (cont'd) | | | | | | | | | |
| Barium | 0.011 mg/L | 0.010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | | |
| Beryllium | ND mg/L | 0.0010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | | |
| Cadmium | ND mg/L | 0.010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | | |
| Chromium | ND mg/L | 0.010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | | |
| Cobalt | ND mg/L | 0.010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | | |
| Copper | 0.040 mg/L | 0.020 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | | |
| Lead | ND mg/L | 0.050 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | | |
| Mercury | ND mg/L | 0.0010 | 1 | AA63145 | 01/04/16 10:31 | 01/05/16 14:29 | EPA 245.1 | | |
| Molybdenum | ND mg/L | 0.50 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | | |
| Nickel | ND mg/L | 0.010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | | |
| Selenium | ND mg/L | 0.020 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | | |
| Silver | ND mg/L | 0.010 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | | |
| Thallium | ND mg/L | 0.20 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | | |
| Vanadium | ND mg/L | 0.020 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | | |
| Zinc | 0.025 mg/L | 0.020 | 1 | AA63285 | 01/06/16 14:41 | 01/11/16 15:54 | EPA 200.7 | | |
| Metals by EPA Method 200.8 ICP/MS | | | | | | | | | |
| Copper | ND ug/L | 50 | 4 | AA63337 | 01/07/16 13:32 | 01/11/16 14:18 | EPA 200.8 | | |
| Iron | 120 ug/L | 100 | 4 | AA63337 | 01/07/16 13:32 | 01/11/16 14:18 | EPA 200.8 | | |
| Manganese | ND ug/L | 20 | 4 | AA63337 | 01/07/16 13:32 | 01/11/16 14:18 | EPA 200.8 | | |
| Zinc | ND ug/L | 50 | 4 | AA63337 | 01/07/16 13:32 | 01/11/16 14:18 | EPA 200.8 | | |
| Conventional Chemistry Parameters by APHA/EPA Methods | | | | | | | | | |
| Color | 5.0 CU | 5.0 | 1 | AL53367 | 12/21/15 19:00 | 12/21/15 19:00 | SM2120B | | |
| Odor | ND T.O.N. | 1.0 | 1 | AL53367 | 12/21/15 19:00 | 12/21/15 19:00 | EPA 140.1 | | |
| Oil & Grease (HEM-SG) | ND mg/L | 5.0 | 1 | AA63184 | 01/05/16 07:23 | 01/08/16 16:35 | EPA 1664A | | |
| Total Dissolved Solids | 1500 mg/L | 10 | 1 | AL53393 | 12/22/15 18:00 | 12/29/15 07:00 | SM2540C | | |
| Turbidity | 0.89 NTU | 0.10 | 1 | AL53369 | 12/21/15 19:00 | 12/21/15 19:00 | SM2130B | | |

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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

| | Result | Reporting Limit | Dilution | Batch | Prepared | Analyzed | Method | Note |
|--|----------|---------------------------|----------|---------|--------------------------------|----------------|----------------|----------|
| Domestic Well #2 & Irrigation (15L2340-02) | | Sample Type: Water | | | Sampled: 12/21/15 13:20 | | | |
| Anions by EPA Method 300.0 | | | | | | | | |
| Chloride | 270 mg/L | 25 | 50 | AL53394 | 12/22/15 23:42 | 12/22/15 23:42 | EPA 300.0 | |
| Fluoride | 1.2 mg/L | 0.10 | 1 | AL53394 | 12/22/15 23:42 | 12/22/15 23:42 | EPA 300.0 | |
| Nitrate as NO3 | 13 mg/L | 2.0 | 1 | AL53394 | 12/22/15 23:42 | 12/22/15 23:42 | EPA 300.0 | |
| Sulfate as SO4 | 330 mg/L | 25 | 50 | AL53394 | 12/22/15 23:42 | 12/22/15 23:42 | EPA 300.0 | |
| Microbiological Parameters by APHA Standard Methods | | | | | | | | |
| Total Coliforms | Absent . | | 1 | 1 | AL53387 | 12/21/15 19:00 | 12/22/15 19:00 | Colisure |
| E. Coli | Absent . | | 1 | 1 | AL53387 | 12/21/15 19:00 | 12/22/15 19:00 | Colisure |
| TPH by EPA/LUFT GC Methods | | | | | | | | |
| TPH as Diesel | ND ug/L | 250 | 1 | AL53404 | 12/23/15 07:29 | 12/31/15 08:29 | 8015DRO | |
| TPH as Motor Oil | ND ug/L | 250 | 1 | AL53404 | 12/23/15 07:29 | 12/31/15 08:29 | 8015DRO | |
| Surrogate: Tetraetracontane | 91.9 % | 60-120 | | AL53404 | 12/23/15 07:29 | 12/31/15 08:29 | 8015DRO | |
| TPH by EPA/LUFT GCMS Methods | | | | | | | | |
| TPH as Gasoline | ND ug/L | 50 | 1 | AL53416 | 12/23/15 09:00 | 12/23/15 15:51 | 8260GRO | |
| Surrogate: Toluene-d8 | 96.0 % | 76-129 | | AL53416 | 12/23/15 09:00 | 12/23/15 15:51 | 8260GRO | |
| Volatile Organic Compounds by EPA Method 8260B | | | | | | | | |
| Acetone | ND ug/L | 5.0 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Benzene | ND ug/L | 0.30 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Bromobenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Bromochloromethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Bromodichloromethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Bromoform | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Bromomethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| n-Butylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| sec-Butylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| tert-Butylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Carbon disulfide | ND ug/L | 5.0 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Carbon tetrachloride | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Chlorobenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Chloroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Chloroform | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Chloromethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 2-Chlorotoluene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 4-Chlorotoluene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Dibromochloromethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |

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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

| | Result | Reporting Limit | Dilution | Batch | Prepared | Analyzed | Method | Note |
|--|---------|---------------------------|----------|---------|--------------------------------|----------------|-----------|------|
| Domestic Well #2 & Irrigation (15L2340-02) | | Sample Type: Water | | | Sampled: 12/21/15 13:20 | | | |
| Volatile Organic Compounds by EPA Method 8260B (cont'd) | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND ug/L | 2.0 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,2-Dibromoethane (EDB) | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Dibromomethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,2-Dichlorobenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,3-Dichlorobenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,4-Dichlorobenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Dichlorodifluoromethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,1-Dichloroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,2-Dichloroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,1-Dichloroethene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,2-Dichloropropane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,3-Dichloropropane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 2,2-Dichloropropane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,1-Dichloropropene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| cis-1,3-Dichloropropene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| trans-1,3-Dichloropropene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Ethylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 2-Hexanone | ND ug/L | 5.0 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Hexachlorobutadiene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Isopropylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| p-Isopropyltoluene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Methyl ethyl ketone | ND ug/L | 1.0 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Methyl isobutyl ketone | ND ug/L | 1.0 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Methyl tert-butyl ether | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Methylene chloride | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Naphthalene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| n-Propylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Styrene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,1,1,2-Tetrachloroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,1,2,2-Tetrachloroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Tetrachloroethene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Toluene | ND ug/L | 0.30 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,2,3-Trichlorobenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,2,4-Trichlorobenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,1,1-Trichloroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,1,2-Trichloroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |

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3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

| | Result | Reporting Limit | Dilution | Batch | Prepared | Analyzed | Method | Note |
|--|---------|---------------------------|----------|---------|--------------------------------|----------------|-----------|------|
| Domestic Well #2 & Irrigation (15L2340-02) | | Sample Type: Water | | | Sampled: 12/21/15 13:20 | | | |
| Volatile Organic Compounds by EPA Method 8260B (cont'd) | | | | | | | | |
| Trichloroethene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Trichlorofluoromethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Trichlorotrifluoroethane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,2,3-Trichloropropane | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,2,4-Trimethylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| 1,3,5-Trimethylbenzene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Vinyl acetate | ND ug/L | 1.0 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Vinyl chloride | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| m,p-Xylene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| o-Xylene | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Xylenes (total) | ND ug/L | 0.50 | 1 | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Surrogate: Dibromofluoromethane | 80.5 % | 46-130 | | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Surrogate: Toluene-d8 | 97.3 % | 59-132 | | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |
| Surrogate: Bromofluorobenzene | 94.0 % | 81-135 | | AL53417 | 12/23/15 09:00 | 12/23/15 15:51 | EPA 8260B | |



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Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Metals by EPA 200 Series Methods - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|---|---------|-----------------|-------|---------------------------------------|---------------|---------------------------------------|-------------|------|-----------|------|
| Batch AA63145 - EPA 245.1 Hg Water | | | | | | | | | | |
| Blank (AA63145-BLK1) | | | | Prepared: 01/04/16 Analyzed: 01/05/16 | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (AA63145-BS1) | | | | Prepared: 01/04/16 Analyzed: 01/05/16 | | | | | | |
| Mercury | 0.00260 | 0.0010 | mg/L | 0.00250 | | 104 | 85-115 | | | |
| Duplicate (AA63145-DUP1) | | | | Source: 15L2750-01 | | Prepared: 01/04/16 Analyzed: 01/05/16 | | | | |
| Mercury | ND | 0.0010 | mg/L | | ND | | | | 20 | |
| Matrix Spike (AA63145-MS1) | | | | Source: 15L2750-01 | | Prepared: 01/04/16 Analyzed: 01/05/16 | | | | |
| Mercury | 0.00283 | 0.0010 | mg/L | 0.00250 | ND | 113 | 70-130 | | | |
| Matrix Spike Dup (AA63145-MSD1) | | | | Source: 15L2750-01 | | Prepared: 01/04/16 Analyzed: 01/05/16 | | | | |
| Mercury | 0.00301 | 0.0010 | mg/L | 0.00250 | ND | 120 | 70-130 | 6.16 | 20 | |
| Batch AA63285 - Metals Digest | | | | | | | | | | |
| Blank (AA63285-BLK1) | | | | Prepared: 01/06/16 Analyzed: 01/11/16 | | | | | | |
| Antimony | ND | 0.020 | mg/L | | | | | | | |
| Arsenic | ND | 0.010 | mg/L | | | | | | | |
| Barium | ND | 0.010 | mg/L | | | | | | | |
| Beryllium | ND | 0.0010 | mg/L | | | | | | | |
| Cadmium | ND | 0.010 | mg/L | | | | | | | |
| Chromium | ND | 0.010 | mg/L | | | | | | | |
| Cobalt | ND | 0.010 | mg/L | | | | | | | |
| Copper | ND | 0.020 | mg/L | | | | | | | |
| Lead | ND | 0.050 | mg/L | | | | | | | |
| Molybdenum | ND | 0.50 | mg/L | | | | | | | |
| Nickel | ND | 0.010 | mg/L | | | | | | | |
| Selenium | ND | 0.020 | mg/L | | | | | | | |
| Silver | ND | 0.010 | mg/L | | | | | | | |
| Thallium | ND | 0.20 | mg/L | | | | | | | |
| Vanadium | ND | 0.020 | mg/L | | | | | | | |
| Zinc | ND | 0.020 | mg/L | | | | | | | |

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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Metals by EPA 200 Series Methods - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|------------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|
|------------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|

Batch AA63285 - Metals Digest

LCS (AA63285-BS1)

Prepared: 01/06/16 Analyzed: 01/11/16

| | | | | | | | | | | |
|------------|-------|--------|------|-------|--|------|--------|--|--|--|
| Antimony | 0.197 | 0.020 | mg/L | 0.200 | | 98.6 | 85-115 | | | |
| Arsenic | 0.204 | 0.010 | mg/L | 0.200 | | 102 | 85-115 | | | |
| Barium | 0.182 | 0.010 | mg/L | 0.200 | | 91.1 | 85-115 | | | |
| Beryllium | 0.198 | 0.0010 | mg/L | 0.200 | | 98.8 | 85-115 | | | |
| Cadmium | 0.191 | 0.010 | mg/L | 0.200 | | 95.7 | 85-115 | | | |
| Chromium | 0.194 | 0.010 | mg/L | 0.200 | | 96.9 | 85-115 | | | |
| Cobalt | 0.190 | 0.010 | mg/L | 0.200 | | 94.8 | 85-115 | | | |
| Copper | 0.207 | 0.020 | mg/L | 0.200 | | 104 | 85-115 | | | |
| Lead | 0.189 | 0.050 | mg/L | 0.200 | | 94.4 | 85-115 | | | |
| Molybdenum | 0.192 | 0.50 | mg/L | 0.200 | | 96.0 | 85-115 | | | |
| Nickel | 0.193 | 0.010 | mg/L | 0.200 | | 96.7 | 85-115 | | | |
| Selenium | 0.195 | 0.020 | mg/L | 0.200 | | 97.7 | 85-115 | | | |
| Silver | 0.195 | 0.010 | mg/L | 0.200 | | 97.3 | 85-115 | | | |
| Thallium | 0.187 | 0.20 | mg/L | 0.200 | | 93.7 | 85-115 | | | |
| Vanadium | 0.192 | 0.020 | mg/L | 0.200 | | 95.8 | 85-115 | | | |
| Zinc | 0.191 | 0.020 | mg/L | 0.200 | | 95.7 | 85-115 | | | |

Duplicate (AA63285-DUP1)

Source: 15L2340-01

Prepared: 01/06/16 Analyzed: 01/11/16

| | | | | | | | | | | |
|------------|--------|--------|------|--|--------|--|--|-------|----|--|
| Antimony | ND | 0.020 | mg/L | | ND | | | 0.262 | 20 | |
| Arsenic | ND | 0.010 | mg/L | | ND | | | | 20 | |
| Barium | 0.0176 | 0.010 | mg/L | | 0.0166 | | | 6.21 | 20 | |
| Beryllium | ND | 0.0010 | mg/L | | ND | | | | 20 | |
| Cadmium | ND | 0.010 | mg/L | | ND | | | 19.0 | 20 | |
| Chromium | ND | 0.010 | mg/L | | ND | | | | 20 | |
| Cobalt | ND | 0.010 | mg/L | | ND | | | 26.2 | 20 | |
| Copper | ND | 0.020 | mg/L | | ND | | | 19.3 | 20 | |
| Lead | ND | 0.050 | mg/L | | ND | | | | 20 | |
| Molybdenum | ND | 0.50 | mg/L | | ND | | | 3.18 | 20 | |
| Nickel | ND | 0.010 | mg/L | | ND | | | | 20 | |
| Selenium | ND | 0.020 | mg/L | | ND | | | | 20 | |
| Silver | ND | 0.010 | mg/L | | ND | | | 94.1 | 20 | |
| Thallium | ND | 0.20 | mg/L | | ND | | | | 20 | |
| Vanadium | ND | 0.020 | mg/L | | ND | | | 7.94 | 20 | |

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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Metals by EPA 200 Series Methods - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|------------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|
|------------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|

Batch AA63285 - Metals Digest

Duplicate (AA63285-DUP1)

Source: 15L2340-01

Prepared: 01/06/16 Analyzed: 01/11/16

| | | | | | | | | | | |
|------|--------|-------|------|--|--------|--|--|------|----|--|
| Zinc | 0.0309 | 0.020 | mg/L | | 0.0288 | | | 6.98 | 20 | |
|------|--------|-------|------|--|--------|--|--|------|----|--|

Matrix Spike (AA63285-MS1)

Source: 15L2340-01

Prepared: 01/06/16 Analyzed: 01/11/16

| | | | | | | | | | | |
|------------|-------|--------|------|-------|--------|------|--------|--|--|--|
| Antimony | 0.274 | 0.020 | mg/L | 0.200 | ND | 128 | 70-130 | | | |
| Arsenic | 0.191 | 0.010 | mg/L | 0.200 | ND | 95.6 | 70-130 | | | |
| Barium | 0.203 | 0.010 | mg/L | 0.200 | 0.0166 | 93.3 | 70-130 | | | |
| Beryllium | 0.218 | 0.0010 | mg/L | 0.200 | ND | 109 | 70-130 | | | |
| Cadmium | 0.202 | 0.010 | mg/L | 0.200 | ND | 100 | 70-130 | | | |
| Chromium | 0.193 | 0.010 | mg/L | 0.200 | ND | 96.7 | 70-130 | | | |
| Cobalt | 0.193 | 0.010 | mg/L | 0.200 | ND | 95.6 | 70-130 | | | |
| Copper | 0.211 | 0.020 | mg/L | 0.200 | ND | 99.8 | 70-130 | | | |
| Lead | 0.173 | 0.050 | mg/L | 0.200 | ND | 86.5 | 70-130 | | | |
| Molybdenum | 0.186 | 0.50 | mg/L | 0.200 | ND | 86.9 | 70-130 | | | |
| Nickel | 0.182 | 0.010 | mg/L | 0.200 | ND | 91.1 | 70-130 | | | |
| Selenium | 0.168 | 0.020 | mg/L | 0.200 | ND | 83.8 | 70-130 | | | |
| Silver | 0.211 | 0.010 | mg/L | 0.200 | ND | 105 | 70-130 | | | |
| Thallium | 0.142 | 0.20 | mg/L | 0.200 | ND | 70.8 | 70-130 | | | |
| Vanadium | 0.215 | 0.020 | mg/L | 0.200 | ND | 102 | 70-130 | | | |
| Zinc | 0.238 | 0.020 | mg/L | 0.200 | 0.0288 | 105 | 70-130 | | | |

Matrix Spike (AA63285-MS2)

Source: 15L2376-01

Prepared: 01/06/16 Analyzed: 01/11/16

| | | | | | | | | | | |
|------------|-------|--------|------|-------|--------|------|--------|--|--|--|
| Antimony | 0.252 | 0.020 | mg/L | 0.200 | ND | 123 | 70-130 | | | |
| Arsenic | 0.189 | 0.010 | mg/L | 0.200 | ND | 94.7 | 70-130 | | | |
| Barium | 0.249 | 0.010 | mg/L | 0.200 | 0.0670 | 90.8 | 70-130 | | | |
| Beryllium | 0.207 | 0.0010 | mg/L | 0.200 | ND | 103 | 70-130 | | | |
| Cadmium | 0.189 | 0.010 | mg/L | 0.200 | ND | 94.6 | 70-130 | | | |
| Chromium | 0.192 | 0.010 | mg/L | 0.200 | ND | 93.4 | 70-130 | | | |
| Cobalt | 0.196 | 0.010 | mg/L | 0.200 | ND | 96.1 | 70-130 | | | |
| Copper | 0.210 | 0.020 | mg/L | 0.200 | 0.0288 | 90.6 | 70-130 | | | |
| Lead | 0.162 | 0.050 | mg/L | 0.200 | ND | 80.9 | 70-130 | | | |
| Molybdenum | 0.186 | 0.50 | mg/L | 0.200 | ND | 78.8 | 70-130 | | | |
| Nickel | 0.199 | 0.010 | mg/L | 0.200 | 0.0198 | 89.4 | 70-130 | | | |
| Selenium | 0.162 | 0.020 | mg/L | 0.200 | ND | 80.9 | 70-130 | | | |
| Silver | 0.201 | 0.010 | mg/L | 0.200 | ND | 101 | 70-130 | | | |

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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Metals by EPA 200 Series Methods - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|--|--------|---------------------------|-------|-------------|--------------------|------|--------------------|--------|-----------|-------|
| Batch AA63285 - Metals Digest | | | | | | | | | | |
| Matrix Spike (AA63285-MS2) | | Source: 15L2376-01 | | | Prepared: 01/06/16 | | Analyzed: 01/11/16 | | | |
| Thallium | 0.134 | 0.20 | mg/L | 0.200 | ND | 66.9 | 70-130 | | | QM-01 |
| Vanadium | 0.208 | 0.020 | mg/L | 0.200 | ND | 104 | 70-130 | | | |
| Zinc | 0.289 | 0.020 | mg/L | 0.200 | 0.0808 | 104 | 70-130 | | | |
| Matrix Spike Dup (AA63285-MSD1) | | Source: 15L2340-01 | | | Prepared: 01/06/16 | | Analyzed: 01/11/16 | | | |
| Antimony | 0.270 | 0.020 | mg/L | 0.200 | ND | 126 | 70-130 | 1.14 | 20 | |
| Arsenic | 0.186 | 0.010 | mg/L | 0.200 | ND | 93.2 | 70-130 | 2.46 | 20 | |
| Barium | 0.196 | 0.010 | mg/L | 0.200 | 0.0166 | 89.9 | 70-130 | 3.45 | 20 | |
| Beryllium | 0.218 | 0.0010 | mg/L | 0.200 | ND | 109 | 70-130 | 0.195 | 20 | |
| Cadmium | 0.199 | 0.010 | mg/L | 0.200 | ND | 99.1 | 70-130 | 1.22 | 20 | |
| Chromium | 0.188 | 0.010 | mg/L | 0.200 | ND | 94.1 | 70-130 | 2.70 | 20 | |
| Cobalt | 0.193 | 0.010 | mg/L | 0.200 | ND | 95.6 | 70-130 | 0.0558 | 20 | |
| Copper | 0.202 | 0.020 | mg/L | 0.200 | ND | 95.3 | 70-130 | 4.38 | 20 | |
| Lead | 0.169 | 0.050 | mg/L | 0.200 | ND | 84.7 | 70-130 | 2.11 | 20 | |
| Molybdenum | 0.182 | 0.50 | mg/L | 0.200 | ND | 84.4 | 70-130 | 2.68 | 20 | |
| Nickel | 0.180 | 0.010 | mg/L | 0.200 | ND | 89.8 | 70-130 | 1.51 | 20 | |
| Selenium | 0.162 | 0.020 | mg/L | 0.200 | ND | 81.1 | 70-130 | 3.27 | 20 | |
| Silver | 0.207 | 0.010 | mg/L | 0.200 | ND | 103 | 70-130 | 2.08 | 20 | |
| Thallium | 0.136 | 0.20 | mg/L | 0.200 | ND | 68.2 | 70-130 | 3.77 | 20 | QM-01 |
| Vanadium | 0.209 | 0.020 | mg/L | 0.200 | ND | 99.2 | 70-130 | 2.77 | 20 | |
| Zinc | 0.230 | 0.020 | mg/L | 0.200 | 0.0288 | 101 | 70-130 | 3.17 | 20 | |

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Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Metals by EPA Method 200.8 ICP/MS - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|----------------------------------|--------|-----------------|-------|---------------------------------------|---------------|------|---------------------------------------|------|-----------|------|
| Batch AA63337 - EPA 200.8 | | | | | | | | | | |
| Blank (AA63337-BLK1) | | | | | | | | | | |
| | | | | Prepared: 01/07/16 Analyzed: 01/08/16 | | | | | | |
| Copper | ND | 50 | ug/L | | | | | | | |
| Iron | ND | 100 | ug/L | | | | | | | |
| Manganese | ND | 5.0 | ug/L | | | | | | | |
| Zinc | ND | 50 | ug/L | | | | | | | |
| LCS (AA63337-BS1) | | | | | | | | | | |
| | | | | Prepared: 01/07/16 Analyzed: 01/08/16 | | | | | | |
| Copper | 19.6 | 50 | ug/L | 20.0 | | 98.0 | 85-115 | | | |
| Iron | 521 | 100 | ug/L | 520 | | 100 | 85-115 | | | |
| Manganese | 19.6 | 5.0 | ug/L | 20.0 | | 98.0 | 85-115 | | | |
| Zinc | 99.2 | 50 | ug/L | 100 | | 99.2 | 85-115 | | | |
| Duplicate (AA63337-DUP1) | | | | | | | | | | |
| | | | | Source: 15L2609-01 | | | Prepared: 01/07/16 Analyzed: 01/08/16 | | | |
| Copper | ND | 50 | ug/L | | ND | | | 96.3 | 20 | |
| Iron | 103 | 100 | ug/L | | 108 | | | 5.01 | 20 | |
| Manganese | ND | 20 | ug/L | | ND | | | 1.43 | 20 | |
| Zinc | ND | 50 | ug/L | | ND | | | 21.0 | 20 | |



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Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|--|--------|-----------------|-------|--|---------------|------|-------------|------|-----------|-------|
| Batch AA63184 - General Preparation | | | | | | | | | | |
| Blank (AA63184-BLK1) | | | | Prepared: 01/05/16 Analyzed: 01/08/16 | | | | | | |
| Oil & Grease (HEM-SG) | ND | 5.0 | mg/L | | | | | | | |
| LCS (AA63184-BS1) | | | | Prepared: 01/05/16 Analyzed: 01/08/16 | | | | | | |
| Oil & Grease (HEM-SG) | 17.4 | 5.0 | mg/L | 20.0 | | 87.0 | 66-114 | | | |
| LCS Dup (AA63184-BSD1) | | | | Prepared: 01/05/16 Analyzed: 01/08/16 | | | | | | |
| Oil & Grease (HEM-SG) | 19.1 | 5.0 | mg/L | 20.0 | | 95.5 | 66-114 | 9.32 | 24 | |
| Matrix Spike (AA63184-MS1) | | | | Source: 15L2340-02 Prepared: 01/05/16 Analyzed: 01/08/16 | | | | | | |
| Oil & Grease (HEM-SG) | 3.70 | 5.0 | mg/L | 10.0 | ND | NR | 66-114 | | | QM-05 |
| Batch AL53369 - General Preparation | | | | | | | | | | |
| Blank (AL53369-BLK1) | | | | Prepared & Analyzed: 12/21/15 | | | | | | |
| Turbidity | ND | 0.10 | NTU | | | | | | | |
| Duplicate (AL53369-DUP1) | | | | Source: 15L2284-01 Prepared & Analyzed: 12/21/15 | | | | | | |
| Turbidity | 12.6 | 0.10 | NTU | | 12.2 | | | 3.23 | 15 | |
| Batch AL53393 - General Preparation | | | | | | | | | | |
| Blank (AL53393-BLK1) | | | | Prepared: 12/22/15 Analyzed: 12/29/15 | | | | | | |
| Total Dissolved Solids | ND | 10 | mg/L | | | | | | | |
| Duplicate (AL53393-DUP1) | | | | Source: 15L2335-01 Prepared: 12/22/15 Analyzed: 12/29/15 | | | | | | |
| Total Dissolved Solids | 972 | 10 | mg/L | | 940 | | | 3.35 | 15 | |

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Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|------------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|
|------------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|

Batch AL53393 - General Preparation

Duplicate (AL53393-DUP2)

Source: 15L2340-01

Prepared: 12/22/15 Analyzed: 12/29/15

| | | | | | | | | | | |
|------------------------|------|----|------|--|------|--|--|-------|----|--|
| Total Dissolved Solids | 1290 | 10 | mg/L | | 1300 | | | 0.927 | 15 | |
|------------------------|------|----|------|--|------|--|--|-------|----|--|



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Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Anions by EPA Method 300.0 - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|--|--------|-----------------|-------|-------------------------------|---------------|------|-------------------------------|-------|-----------|------|
| Batch AL53394 - General Preparation | | | | | | | | | | |
| Blank (AL53394-BLK1) | | | | Prepared & Analyzed: 12/22/15 | | | | | | |
| Nitrate as NO3 | ND | 2.0 | mg/L | | | | | | | |
| Fluoride | ND | 0.10 | mg/L | | | | | | | |
| Sulfate as SO4 | ND | 0.50 | mg/L | | | | | | | |
| Chloride | ND | 0.50 | mg/L | | | | | | | |
| LCS (AL53394-BS1) | | | | Prepared & Analyzed: 12/22/15 | | | | | | |
| Fluoride | 5.44 | 0.10 | mg/L | 5.56 | | 98.0 | 90-110 | | | |
| Nitrate as NO3 | 24 | 2.0 | mg/L | 24.7 | | 98.1 | 90-110 | | | |
| Chloride | 11.0 | 0.50 | mg/L | 11.1 | | 98.9 | 90-110 | | | |
| Sulfate as SO4 | 21.9 | 0.50 | mg/L | 22.2 | | 98.4 | 90-110 | | | |
| Duplicate (AL53394-DUP1) | | | | Source: 15L2329-01 | | | Prepared & Analyzed: 12/22/15 | | | |
| Fluoride | ND | 0.10 | mg/L | | ND | | | | 20 | |
| Sulfate as SO4 | 0.874 | 0.50 | mg/L | | 0.860 | | | 1.61 | 20 | |
| Chloride | 5.22 | 0.50 | mg/L | | 5.21 | | | 0.268 | 20 | |
| Nitrate as NO3 | ND | 2.0 | mg/L | | ND | | | | 20 | |
| Matrix Spike (AL53394-MS1) | | | | Source: 15L2329-01 | | | Prepared & Analyzed: 12/22/15 | | | |
| Fluoride | 5.59 | 0.10 | mg/L | 5.56 | ND | 101 | 80-120 | | | |
| Sulfate as SO4 | 23.3 | 0.50 | mg/L | 22.2 | 0.860 | 101 | 80-120 | | | |
| Chloride | 16.6 | 0.50 | mg/L | 11.1 | 5.21 | 103 | 80-120 | | | |
| Nitrate as NO3 | 25 | 2.0 | mg/L | 24.7 | ND | 101 | 80-120 | | | |
| Matrix Spike (AL53394-MS2) | | | | Source: 15L2440-01 | | | Prepared & Analyzed: 12/23/15 | | | |
| Fluoride | 6.16 | 0.10 | mg/L | 5.56 | ND | 110 | 80-120 | | | |
| Sulfate as SO4 | 25.5 | 0.50 | mg/L | 22.2 | 0.935 | 110 | 80-120 | | | |
| Nitrate as NO3 | 30 | 2.0 | mg/L | 24.7 | ND | 120 | 80-120 | | | |
| Chloride | 21.4 | 0.50 | mg/L | 11.1 | 8.56 | 116 | 80-120 | | | |

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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Anions by EPA Method 300.0 - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|------------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|
|------------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|

Batch AL53394 - General Preparation

Matrix Spike Dup (AL53394-MSD1)

Source: 15L2329-01

Prepared & Analyzed: 12/22/15

| | | | | | | | | | | |
|----------------|------|------|------|------|-------|-----|--------|--------|----|--|
| Sulfate as SO4 | 23.2 | 0.50 | mg/L | 22.2 | 0.860 | 101 | 80-120 | 0.277 | 20 | |
| Fluoride | 5.58 | 0.10 | mg/L | 5.56 | ND | 100 | 80-120 | 0.0796 | 20 | |
| Chloride | 16.6 | 0.50 | mg/L | 11.1 | 5.21 | 103 | 80-120 | 0.194 | 20 | |
| Nitrate as NO3 | 25 | 2.0 | mg/L | 24.7 | ND | 101 | 80-120 | 0.247 | 20 | |



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Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Microbiological Parameters by APHA Standard Methods - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|--|---------|-----------------|-------|-------------|---------------|---------------------------------------|-------------|-----|-----------|------|
| Batch AL53387 - Microbiology Prep | | | | | | | | | | |
| Blank (AL53387-BLK1) | | | | | | | | | | |
| | | | | | | Prepared: 12/21/15 Analyzed: 12/22/15 | | | | |
| Total Coliforms | Absent | 1 | . | | | | | | | |
| E. Coli | Absent | 1 | . | | | | | | | |
| LCS (AL53387-BS1) | | | | | | | | | | |
| | | | | | | Prepared: 12/21/15 Analyzed: 12/22/15 | | | | |
| Total Coliforms | Present | 1 | . | 1.00 | | 100 | 100-100 | | | |
| E. Coli | Present | 1 | . | 1.00 | | 100 | 100-100 | | | |



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Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

TPH by EPA/LUFT GC Methods - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|--|--------|-----------------|-------|---------------------------------------|---------------|------|-------------|-------|-----------|------|
| Batch AL53404 - SVOAs in Water GC | | | | | | | | | | |
| Blank (AL53404-BLK1) | | | | | | | | | | |
| | | | | Prepared: 12/23/15 Analyzed: 12/30/15 | | | | | | |
| TPH as Diesel | ND | 250 | ug/L | | | | | | | |
| TPH as Motor Oil | ND | 250 | ug/L | | | | | | | |
| Surrogate: Tetratetracontane | 47.2 | | ug/L | 56.0 | | 84.3 | 60-120 | | | |
| LCS (AL53404-BS1) | | | | | | | | | | |
| | | | | Prepared: 12/23/15 Analyzed: 12/30/15 | | | | | | |
| TPH as Diesel | 1500 | 250 | ug/L | 2030 | | 73.9 | 68-98 | | | |
| Surrogate: Tetratetracontane | 50.8 | | ug/L | 56.0 | | 90.7 | 60-120 | | | |
| LCS (AL53404-BS2) | | | | | | | | | | |
| | | | | Prepared: 12/23/15 Analyzed: 12/30/15 | | | | | | |
| TPH as Motor Oil | 1950 | 250 | ug/L | 2020 | | 96.6 | 80-110 | | | |
| Surrogate: Tetratetracontane | 46.0 | | ug/L | 56.0 | | 82.2 | 60-120 | | | |
| LCS Dup (AL53404-BSD1) | | | | | | | | | | |
| | | | | Prepared: 12/23/15 Analyzed: 12/30/15 | | | | | | |
| TPH as Diesel | 1500 | 250 | ug/L | 2030 | | 74.0 | 68-98 | 0.134 | 25 | |
| Surrogate: Tetratetracontane | 48.6 | | ug/L | 56.0 | | 86.7 | 60-120 | | | |
| LCS Dup (AL53404-BSD2) | | | | | | | | | | |
| | | | | Prepared: 12/23/15 Analyzed: 12/30/15 | | | | | | |
| TPH as Motor Oil | 1890 | 250 | ug/L | 2020 | | 93.7 | 80-110 | 3.10 | 25 | |
| Surrogate: Tetratetracontane | 44.8 | | ug/L | 56.0 | | 79.9 | 60-120 | | | |



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Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

TPH by EPA/LUFT GCMS Methods - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|--|--------|-----------------|-------|-------------|---------------|------|-------------|-------|-----------|------|
| Batch AL53416 - VOAs in Water GCMS | | | | | | | | | | |
| Blank (AL53416-BLK1) | | | | | | | | | | |
| Prepared & Analyzed: 12/22/15 | | | | | | | | | | |
| TPH as Gasoline | ND | 50 | ug/L | | | | | | | |
| Surrogate: Toluene-d8 | 25.0 | | ug/L | 25.0 | | 100 | 76-129 | | | |
| LCS (AL53416-BS1) | | | | | | | | | | |
| Prepared: 12/22/15 Analyzed: 12/23/15 | | | | | | | | | | |
| TPH as Gasoline | 216 | 50 | ug/L | 200 | | 108 | 67-132 | | | |
| Surrogate: Toluene-d8 | 25.0 | | ug/L | 25.0 | | 100 | 76-129 | | | |
| LCS Dup (AL53416-BSD1) | | | | | | | | | | |
| Prepared: 12/22/15 Analyzed: 12/23/15 | | | | | | | | | | |
| TPH as Gasoline | 215 | 50 | ug/L | 200 | | 108 | 67-132 | 0.464 | 25 | |
| Surrogate: Toluene-d8 | 25.0 | | ug/L | 25.0 | | 100 | 76-129 | | | |
| Matrix Spike (AL53416-MS1) | | | | | | | | | | |
| Source: 15L1971-02 Prepared: 12/22/15 Analyzed: 12/23/15 | | | | | | | | | | |
| TPH as Gasoline | 219 | 50 | ug/L | 200 | ND | 110 | 37-156 | | | |
| Surrogate: Toluene-d8 | 25.0 | | ug/L | 25.0 | | 100 | 76-129 | | | |
| Matrix Spike Dup (AL53416-MSD1) | | | | | | | | | | |
| Source: 15L1971-02 Prepared: 12/22/15 Analyzed: 12/23/15 | | | | | | | | | | |
| TPH as Gasoline | 211 | 50 | ug/L | 200 | ND | 106 | 37-156 | 3.72 | 25 | |
| Surrogate: Toluene-d8 | 25.0 | | ug/L | 25.0 | | 100 | 76-129 | | | |



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Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|------------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|
|------------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|

Batch AL53417 - VOAs in Water GCMS

Blank (AL53417-BLK1)

Prepared & Analyzed: 12/22/15

| | | | | | | | | | | |
|-----------------------------|----|------|------|--|--|--|--|--|--|--|
| Acetone | ND | 5.0 | ug/L | | | | | | | |
| Benzene | ND | 0.30 | ug/L | | | | | | | |
| Bromobenzene | ND | 0.50 | ug/L | | | | | | | |
| Bromochloromethane | ND | 0.50 | ug/L | | | | | | | |
| Bromodichloromethane | ND | 0.50 | ug/L | | | | | | | |
| Bromoform | ND | 0.50 | ug/L | | | | | | | |
| Bromomethane | ND | 0.50 | ug/L | | | | | | | |
| n-Butylbenzene | ND | 0.50 | ug/L | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | ug/L | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | ug/L | | | | | | | |
| Carbon disulfide | ND | 5.0 | ug/L | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | ug/L | | | | | | | |
| Chlorobenzene | ND | 0.50 | ug/L | | | | | | | |
| Chloroethane | ND | 0.50 | ug/L | | | | | | | |
| Chloroform | ND | 0.50 | ug/L | | | | | | | |
| Chloromethane | ND | 0.50 | ug/L | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | ug/L | | | | | | | |
| Dibromochloromethane | ND | 0.50 | ug/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | ug/L | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | ug/L | | | | | | | |
| Dibromomethane | ND | 0.50 | ug/L | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | ug/L | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | ug/L | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | ug/L | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| 1,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | ug/L | | | | | | | |

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Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|------------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|
|------------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|

Batch AL53417 - VOAs in Water GCMS

Blank (AL53417-BLK1)

Prepared & Analyzed: 12/22/15

| | | | | | | | | | | |
|---------------------------|----|------|------|--|--|--|--|--|--|--|
| 2,2-Dichloropropane | ND | 0.50 | ug/L | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | ug/L | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | | | | | | | |
| Ethylbenzene | ND | 0.50 | ug/L | | | | | | | |
| 2-Hexanone | ND | 5.0 | ug/L | | | | | | | |
| Hexachlorobutadiene | ND | 0.50 | ug/L | | | | | | | |
| Isopropylbenzene | ND | 0.50 | ug/L | | | | | | | |
| p-Isopropyltoluene | ND | 0.50 | ug/L | | | | | | | |
| Methyl ethyl ketone | ND | 1.0 | ug/L | | | | | | | |
| Methyl isobutyl ketone | ND | 1.0 | ug/L | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | ug/L | | | | | | | |
| Methylene chloride | ND | 0.50 | ug/L | | | | | | | |
| Naphthalene | ND | 0.50 | ug/L | | | | | | | |
| n-Propylbenzene | ND | 0.50 | ug/L | | | | | | | |
| Styrene | ND | 0.50 | ug/L | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/L | | | | | | | |
| Toluene | ND | 0.30 | ug/L | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ug/L | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | ug/L | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | ug/L | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | ug/L | | | | | | | |
| Trichlorotrifluoroethane | ND | 0.50 | ug/L | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.50 | ug/L | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ug/L | | | | | | | |
| Vinyl acetate | ND | 1.0 | ug/L | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/L | | | | | | | |
| m,p-Xylene | ND | 0.50 | ug/L | | | | | | | |

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Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|---|--------|-----------------|-------|-------------------------------|---------------|------|-------------|-----|-----------|------|
| Batch AL53417 - VOAs in Water GCMS | | | | | | | | | | |
| Blank (AL53417-BLK1) | | | | Prepared & Analyzed: 12/22/15 | | | | | | |
| o-Xylene | ND | 0.50 | ug/L | | | | | | | |
| Xylenes (total) | ND | 0.50 | ug/L | | | | | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 19.6 | | ug/L | 25.0 | | 78.3 | 46-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 24.9 | | ug/L | 25.0 | | 99.6 | 59-132 | | | |
| <i>Surrogate: Bromofluorobenzene</i> | 23.9 | | ug/L | 25.0 | | 95.4 | 81-135 | | | |
| LCS (AL53417-BS1) | | | | Prepared & Analyzed: 12/22/15 | | | | | | |
| Acetone | 84.3 | 5.0 | ug/L | 80.0 | | 105 | 48-124 | | | |
| Benzene | 20.3 | 0.30 | ug/L | 20.0 | | 101 | 82-122 | | | |
| Bromobenzene | 21.8 | 0.50 | ug/L | 20.0 | | 109 | 83-122 | | | |
| Bromochloromethane | 21.7 | 0.50 | ug/L | 20.0 | | 109 | 83-124 | | | |
| Bromodichloromethane | 16.9 | 0.50 | ug/L | 20.0 | | 84.5 | 70-130 | | | |
| Bromoform | 15.0 | 0.50 | ug/L | 20.0 | | 75.0 | 70-130 | | | |
| Bromomethane | 16.0 | 0.50 | ug/L | 20.0 | | 80.0 | 69-145 | | | |
| n-Butylbenzene | 18.4 | 0.50 | ug/L | 20.0 | | 92.2 | 79-132 | | | |
| sec-Butylbenzene | 21.7 | 0.50 | ug/L | 20.0 | | 108 | 86-132 | | | |
| tert-Butylbenzene | 22.3 | 0.50 | ug/L | 20.0 | | 112 | 82-126 | | | |
| Carbon tetrachloride | 15.9 | 0.50 | ug/L | 20.0 | | 79.6 | 77-134 | | | |
| Carbon disulfide | 15.3 | 5.0 | ug/L | 20.0 | | 76.3 | 70-130 | | | |
| Chlorobenzene | 20.5 | 0.50 | ug/L | 20.0 | | 102 | 84-119 | | | |
| Chloroethane | 18.1 | 0.50 | ug/L | 20.0 | | 90.4 | 68-133 | | | |
| Chloroform | 21.3 | 0.50 | ug/L | 20.0 | | 106 | 81-122 | | | |
| Chloromethane | 16.0 | 0.50 | ug/L | 20.0 | | 80.2 | 63-129 | | | |
| 2-Chlorotoluene | 21.7 | 0.50 | ug/L | 20.0 | | 108 | 79-132 | | | |
| 4-Chlorotoluene | 22.0 | 0.50 | ug/L | 20.0 | | 110 | 80-122 | | | |
| Dibromochloromethane | 16.4 | 0.50 | ug/L | 20.0 | | 82.2 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane | 16.0 | 2.0 | ug/L | 20.0 | | 80.2 | 73-128 | | | |
| 1,2-Dibromoethane (EDB) | 21.2 | 0.50 | ug/L | 20.0 | | 106 | 80-120 | | | |
| Dibromomethane | 22.0 | 0.50 | ug/L | 20.0 | | 110 | 82-124 | | | |
| 1,2-Dichlorobenzene | 20.8 | 0.50 | ug/L | 20.0 | | 104 | 84-121 | | | |
| 1,3-Dichlorobenzene | 21.1 | 0.50 | ug/L | 20.0 | | 105 | 80-120 | | | |
| 1,4-Dichlorobenzene | 19.7 | 0.50 | ug/L | 20.0 | | 98.5 | 84-120 | | | |
| Dichlorodifluoromethane | 17.0 | 0.50 | ug/L | 20.0 | | 85.1 | 52-142 | | | |

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Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|---|--------|-----------------|-------|-------------------------------|---------------|------|-------------|-----|-----------|------|
| Batch AL53417 - VOAs in Water GCMS | | | | | | | | | | |
| LCS (AL53417-BS1) | | | | Prepared & Analyzed: 12/22/15 | | | | | | |
| 1,1-Dichloroethane | 20.4 | 0.50 | ug/L | 20.0 | | 102 | 81-126 | | | |
| 1,2-Dichloroethane | 20.0 | 0.50 | ug/L | 20.0 | | 100 | 77-117 | | | |
| 1,1-Dichloroethene | 19.5 | 0.50 | ug/L | 20.0 | | 97.7 | 71-151 | | | |
| cis-1,2-Dichloroethene | 20.4 | 0.50 | ug/L | 20.0 | | 102 | 84-131 | | | |
| trans-1,2-Dichloroethene | 19.6 | 0.50 | ug/L | 20.0 | | 98.2 | 79-128 | | | |
| 1,2-Dichloropropane | 20.2 | 0.50 | ug/L | 20.0 | | 101 | 82-125 | | | |
| 1,3-Dichloropropane | 21.3 | 0.50 | ug/L | 20.0 | | 106 | 83-120 | | | |
| 2,2-Dichloropropane | 19.3 | 0.50 | ug/L | 20.0 | | 96.7 | 80-125 | | | |
| 1,1-Dichloropropene | 21.7 | 0.50 | ug/L | 20.0 | | 108 | 85-130 | | | |
| cis-1,3-Dichloropropene | 18.0 | 0.50 | ug/L | 20.0 | | 89.8 | 83-128 | | | |
| trans-1,3-Dichloropropene | 18.2 | 0.50 | ug/L | 20.0 | | 90.8 | 67-129 | | | |
| Ethylbenzene | 21.6 | 0.50 | ug/L | 20.0 | | 108 | 84-124 | | | |
| 2-Hexanone | 25.4 | 5.0 | ug/L | 20.0 | | 127 | 70-130 | | | |
| Hexachlorobutadiene | 19.9 | 0.50 | ug/L | 20.0 | | 99.4 | 75-135 | | | |
| Isopropylbenzene | 21.9 | 0.50 | ug/L | 20.0 | | 109 | 75-116 | | | |
| p-Isopropyltoluene | 22.7 | 0.50 | ug/L | 20.0 | | 113 | 78-124 | | | |
| Methyl ethyl ketone | 53.9 | 1.0 | ug/L | 40.0 | | 135 | 58-157 | | | |
| Methyl isobutyl ketone | 44.2 | 1.0 | ug/L | 40.0 | | 110 | 70-130 | | | |
| Methyl tert-butyl ether | 18.5 | 0.50 | ug/L | 20.0 | | 92.4 | 84-119 | | | |
| Methylene chloride | 17.2 | 0.50 | ug/L | 20.0 | | 86.2 | 72-132 | | | |
| Naphthalene | 18.7 | 0.50 | ug/L | 20.0 | | 93.6 | 84-134 | | | |
| n-Propylbenzene | 23.2 | 0.50 | ug/L | 20.0 | | 116 | 75-127 | | | |
| Styrene | 21.4 | 0.50 | ug/L | 20.0 | | 107 | 80-125 | | | |
| 1,1,1,2-Tetrachloroethane | 18.2 | 0.50 | ug/L | 20.0 | | 91.2 | 80-132 | | | |
| 1,1,2,2-Tetrachloroethane | 23.2 | 0.50 | ug/L | 20.0 | | 116 | 70-130 | | | |
| Tetrachloroethene | 20.3 | 0.50 | ug/L | 20.0 | | 102 | 56-156 | | | |
| Toluene | 21.0 | 0.30 | ug/L | 20.0 | | 105 | 76-137 | | | |
| 1,2,3-Trichlorobenzene | 20.7 | 0.50 | ug/L | 20.0 | | 104 | 85-133 | | | |
| 1,2,4-Trichlorobenzene | 18.8 | 0.50 | ug/L | 20.0 | | 94.1 | 84-126 | | | |
| 1,1,1-Trichloroethane | 17.9 | 0.50 | ug/L | 20.0 | | 89.3 | 70-130 | | | |
| 1,1,2-Trichloroethane | 21.4 | 0.50 | ug/L | 20.0 | | 107 | 83-122 | | | |
| Trichloroethene | 20.8 | 0.50 | ug/L | 20.0 | | 104 | 84-123 | | | |
| Trichlorofluoromethane | 19.6 | 0.50 | ug/L | 20.0 | | 97.9 | 74-130 | | | |

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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|---|-------------|-----------------|-------------|-------------------------------|---------------|-------------|---------------|-------|-----------|------|
| Batch AL53417 - VOAs in Water GCMS | | | | | | | | | | |
| LCS (AL53417-BS1) | | | | Prepared & Analyzed: 12/22/15 | | | | | | |
| Trichlorotrifluoroethane | 20.4 | 0.50 | ug/L | 20.0 | | 102 | 82-125 | | | |
| 1,2,3-Trichloropropane | 22.1 | 0.50 | ug/L | 20.0 | | 110 | 78-122 | | | |
| 1,2,4-Trimethylbenzene | 21.4 | 0.50 | ug/L | 20.0 | | 107 | 85-127 | | | |
| 1,3,5-Trimethylbenzene | 22.5 | 0.50 | ug/L | 20.0 | | 113 | 80-125 | | | |
| Vinyl chloride | 16.0 | 0.50 | ug/L | 20.0 | | 80.1 | 70-130 | | | |
| Vinyl acetate | 38.6 | 1.0 | ug/L | 40.0 | | 96.5 | 60-140 | | | |
| m,p-Xylene | 43.5 | 0.50 | ug/L | 40.0 | | 109 | 81-124 | | | |
| o-Xylene | 22.6 | 0.50 | ug/L | 20.0 | | 113 | 80-126 | | | |
| Xylenes (total) | 66.0 | 0.50 | ug/L | 60.0 | | 110 | 81-126 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>22.4</i> | | <i>ug/L</i> | <i>25.0</i> | | <i>89.8</i> | <i>46-130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>24.0</i> | | <i>ug/L</i> | <i>25.0</i> | | <i>96.1</i> | <i>59-132</i> | | | |
| <i>Surrogate: Bromofluorobenzene</i> | <i>24.4</i> | | <i>ug/L</i> | <i>25.0</i> | | <i>97.8</i> | <i>81-135</i> | | | |
| LCS Dup (AL53417-BSD1) | | | | Prepared & Analyzed: 12/22/15 | | | | | | |
| Acetone | 84.4 | 5.0 | ug/L | 80.0 | | 106 | 48-124 | 0.178 | 25 | |
| Benzene | 20.0 | 0.30 | ug/L | 20.0 | | 100 | 82-122 | 1.14 | 25 | |
| Bromobenzene | 21.4 | 0.50 | ug/L | 20.0 | | 107 | 83-122 | 1.80 | 25 | |
| Bromochloromethane | 21.6 | 0.50 | ug/L | 20.0 | | 108 | 83-124 | 0.739 | 25 | |
| Bromodichloromethane | 17.4 | 0.50 | ug/L | 20.0 | | 87.2 | 70-130 | 3.20 | 25 | |
| Bromoform | 15.3 | 0.50 | ug/L | 20.0 | | 76.4 | 70-130 | 1.78 | 25 | |
| Bromomethane | 16.2 | 0.50 | ug/L | 20.0 | | 81.0 | 69-145 | 1.24 | 25 | |
| n-Butylbenzene | 18.3 | 0.50 | ug/L | 20.0 | | 91.6 | 79-132 | 0.599 | 25 | |
| sec-Butylbenzene | 21.1 | 0.50 | ug/L | 20.0 | | 106 | 86-132 | 2.67 | 25 | |
| tert-Butylbenzene | 21.8 | 0.50 | ug/L | 20.0 | | 109 | 82-126 | 2.08 | 25 | |
| Carbon disulfide | 16.3 | 5.0 | ug/L | 20.0 | | 81.4 | 70-130 | 6.47 | 30 | |
| Carbon tetrachloride | 16.2 | 0.50 | ug/L | 20.0 | | 81.1 | 77-134 | 1.80 | 25 | |
| Chlorobenzene | 20.3 | 0.50 | ug/L | 20.0 | | 101 | 84-119 | 0.932 | 25 | |
| Chloroethane | 17.1 | 0.50 | ug/L | 20.0 | | 85.4 | 68-133 | 5.57 | 25 | |
| Chloroform | 21.5 | 0.50 | ug/L | 20.0 | | 107 | 81-122 | 0.842 | 25 | |
| Chloromethane | 16.1 | 0.50 | ug/L | 20.0 | | 80.4 | 63-129 | 0.249 | 25 | |
| 2-Chlorotoluene | 20.9 | 0.50 | ug/L | 20.0 | | 105 | 79-132 | 3.43 | 25 | |
| 4-Chlorotoluene | 21.8 | 0.50 | ug/L | 20.0 | | 109 | 80-122 | 1.05 | 25 | |
| Dibromochloromethane | 16.8 | 0.50 | ug/L | 20.0 | | 83.8 | 70-130 | 1.99 | 25 | |

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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|---|--------|-----------------|-------|-------------------------------|---------------|------|-------------|-------|-----------|------|
| Batch AL53417 - VOAs in Water GCMS | | | | | | | | | | |
| LCS Dup (AL53417-BSD1) | | | | Prepared & Analyzed: 12/22/15 | | | | | | |
| 1,2-Dibromo-3-chloropropane | 16.3 | 2.0 | ug/L | 20.0 | | 81.6 | 73-128 | 1.67 | 25 | |
| 1,2-Dibromoethane (EDB) | 20.6 | 0.50 | ug/L | 20.0 | | 103 | 80-120 | 3.16 | 25 | |
| Dibromomethane | 21.5 | 0.50 | ug/L | 20.0 | | 108 | 82-124 | 2.11 | 25 | |
| 1,2-Dichlorobenzene | 20.4 | 0.50 | ug/L | 20.0 | | 102 | 84-121 | 1.99 | 25 | |
| 1,3-Dichlorobenzene | 20.9 | 0.50 | ug/L | 20.0 | | 104 | 80-120 | 0.858 | 25 | |
| 1,4-Dichlorobenzene | 19.8 | 0.50 | ug/L | 20.0 | | 98.9 | 84-120 | 0.405 | 25 | |
| Dichlorodifluoromethane | 15.0 | 0.50 | ug/L | 20.0 | | 75.1 | 52-142 | 12.5 | 25 | |
| 1,1-Dichloroethane | 20.4 | 0.50 | ug/L | 20.0 | | 102 | 81-126 | 0.245 | 25 | |
| 1,2-Dichloroethane | 19.8 | 0.50 | ug/L | 20.0 | | 99.2 | 77-117 | 0.753 | 25 | |
| 1,1-Dichloroethene | 19.0 | 0.50 | ug/L | 20.0 | | 95.2 | 71-151 | 2.64 | 25 | |
| cis-1,2-Dichloroethene | 20.3 | 0.50 | ug/L | 20.0 | | 102 | 84-131 | 0.491 | 25 | |
| trans-1,2-Dichloroethene | 19.6 | 0.50 | ug/L | 20.0 | | 98.0 | 79-128 | 0.153 | 25 | |
| 1,2-Dichloropropane | 20.3 | 0.50 | ug/L | 20.0 | | 102 | 82-125 | 0.641 | 25 | |
| 1,3-Dichloropropane | 20.5 | 0.50 | ug/L | 20.0 | | 102 | 83-120 | 3.88 | 25 | |
| 2,2-Dichloropropane | 19.9 | 0.50 | ug/L | 20.0 | | 99.4 | 80-125 | 2.75 | 25 | |
| 1,1-Dichloropropene | 21.2 | 0.50 | ug/L | 20.0 | | 106 | 85-130 | 2.10 | 25 | |
| cis-1,3-Dichloropropene | 18.5 | 0.50 | ug/L | 20.0 | | 92.4 | 83-128 | 2.91 | 25 | |
| trans-1,3-Dichloropropene | 18.0 | 0.50 | ug/L | 20.0 | | 90.1 | 67-129 | 0.719 | 25 | |
| Ethylbenzene | 21.2 | 0.50 | ug/L | 20.0 | | 106 | 84-124 | 1.83 | 25 | |
| 2-Hexanone | 24.0 | 5.0 | ug/L | 20.0 | | 120 | 70-130 | 5.62 | 30 | |
| Hexachlorobutadiene | 19.5 | 0.50 | ug/L | 20.0 | | 97.6 | 75-135 | 1.83 | 25 | |
| Isopropylbenzene | 21.3 | 0.50 | ug/L | 20.0 | | 106 | 75-116 | 2.73 | 25 | |
| p-Isopropyltoluene | 22.2 | 0.50 | ug/L | 20.0 | | 111 | 78-124 | 2.14 | 25 | |
| Methyl ethyl ketone | 51.0 | 1.0 | ug/L | 40.0 | | 128 | 58-157 | 5.51 | 25 | |
| Methyl isobutyl ketone | 42.8 | 1.0 | ug/L | 40.0 | | 107 | 70-130 | 3.13 | 25 | |
| Methyl tert-butyl ether | 18.4 | 0.50 | ug/L | 20.0 | | 91.9 | 84-119 | 0.597 | 25 | |
| Methylene chloride | 17.8 | 0.50 | ug/L | 20.0 | | 89.2 | 72-132 | 3.36 | 25 | |
| Naphthalene | 18.3 | 0.50 | ug/L | 20.0 | | 91.3 | 84-134 | 2.49 | 25 | |
| n-Propylbenzene | 22.6 | 0.50 | ug/L | 20.0 | | 113 | 75-127 | 2.53 | 25 | |
| Styrene | 21.1 | 0.50 | ug/L | 20.0 | | 106 | 80-125 | 1.46 | 25 | |
| 1,1,1,2-Tetrachloroethane | 18.7 | 0.50 | ug/L | 20.0 | | 93.7 | 80-132 | 2.65 | 25 | |
| 1,1,2,2-Tetrachloroethane | 21.9 | 0.50 | ug/L | 20.0 | | 109 | 70-130 | 6.03 | 25 | |
| Tetrachloroethene | 19.4 | 0.50 | ug/L | 20.0 | | 97.2 | 56-156 | 4.52 | 25 | |

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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|---|--------|-----------------|-------|--|---------------|------|-------------|-------|-----------|------|
| Batch AL53417 - VOAs in Water GCMS | | | | | | | | | | |
| LCS Dup (AL53417-BSD1) | | | | Prepared & Analyzed: 12/22/15 | | | | | | |
| Toluene | 20.5 | 0.30 | ug/L | 20.0 | | 102 | 76-137 | 2.36 | 25 | |
| 1,2,3-Trichlorobenzene | 20.5 | 0.50 | ug/L | 20.0 | | 102 | 85-133 | 1.07 | 25 | |
| 1,2,4-Trichlorobenzene | 18.4 | 0.50 | ug/L | 20.0 | | 91.9 | 84-126 | 2.37 | 25 | |
| 1,1,1-Trichloroethane | 18.2 | 0.50 | ug/L | 20.0 | | 91.0 | 70-130 | 1.89 | 25 | |
| 1,1,2-Trichloroethane | 20.6 | 0.50 | ug/L | 20.0 | | 103 | 83-122 | 3.90 | 25 | |
| Trichloroethene | 20.3 | 0.50 | ug/L | 20.0 | | 101 | 84-123 | 2.39 | 25 | |
| Trichlorofluoromethane | 18.3 | 0.50 | ug/L | 20.0 | | 91.6 | 74-130 | 6.65 | 25 | |
| Trichlorotrifluoroethane | 18.8 | 0.50 | ug/L | 20.0 | | 94.2 | 82-125 | 7.90 | 25 | |
| 1,2,3-Trichloropropane | 21.2 | 0.50 | ug/L | 20.0 | | 106 | 78-122 | 3.88 | 25 | |
| 1,2,4-Trimethylbenzene | 21.3 | 0.50 | ug/L | 20.0 | | 107 | 85-127 | 0.468 | 25 | |
| 1,3,5-Trimethylbenzene | 22.3 | 0.50 | ug/L | 20.0 | | 111 | 80-125 | 1.25 | 25 | |
| Vinyl chloride | 15.9 | 0.50 | ug/L | 20.0 | | 79.4 | 70-130 | 0.815 | 25 | |
| Vinyl acetate | 38.4 | 1.0 | ug/L | 40.0 | | 95.9 | 60-140 | 0.624 | 25 | |
| m,p-Xylene | 42.4 | 0.50 | ug/L | 40.0 | | 106 | 81-124 | 2.47 | 25 | |
| o-Xylene | 22.1 | 0.50 | ug/L | 20.0 | | 110 | 80-126 | 2.19 | 25 | |
| Xylenes (total) | 64.5 | 0.50 | ug/L | 60.0 | | 108 | 81-126 | 2.37 | 25 | |
| <i>Surrogate: Dibromofluoromethane</i> | 22.8 | | ug/L | 25.0 | | 91.2 | 46-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 23.8 | | ug/L | 25.0 | | 95.2 | 59-132 | | | |
| <i>Surrogate: Bromofluorobenzene</i> | 24.1 | | ug/L | 25.0 | | 96.5 | 81-135 | | | |
| Matrix Spike (AL53417-MS1) | | | | Source: 15L1971-01 Prepared: 12/22/15 Analyzed: 12/23/15 | | | | | | |
| Acetone | 85.8 | 5.0 | ug/L | 80.0 | ND | 107 | 32-164 | | | |
| Benzene | 22.4 | 0.30 | ug/L | 20.0 | ND | 112 | 58-139 | | | |
| Bromobenzene | 23.4 | 0.50 | ug/L | 20.0 | ND | 117 | 63-143 | | | |
| Bromochloromethane | 23.4 | 0.50 | ug/L | 20.0 | ND | 117 | 60-141 | | | |
| Bromodichloromethane | 18.5 | 0.50 | ug/L | 20.0 | ND | 92.5 | 62-140 | | | |
| Bromoform | 16.2 | 0.50 | ug/L | 20.0 | ND | 80.8 | 47-165 | | | |
| Bromomethane | 17.2 | 0.50 | ug/L | 20.0 | ND | 86.1 | 30-163 | | | |
| n-Butylbenzene | 21.1 | 0.50 | ug/L | 20.0 | ND | 106 | 57-147 | | | |
| sec-Butylbenzene | 24.2 | 0.50 | ug/L | 20.0 | ND | 121 | 64-155 | | | |
| tert-Butylbenzene | 24.8 | 0.50 | ug/L | 20.0 | ND | 124 | 57-150 | | | |
| Carbon tetrachloride | 18.1 | 0.50 | ug/L | 20.0 | ND | 90.7 | 65-153 | | | |
| Carbon disulfide | 18.1 | 5.0 | ug/L | 20.0 | ND | 90.6 | 70-130 | | | |

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3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|---|---------------------------|-----------------|-------|--------------------|---------------|--------------------|-------------|-----|-----------|-------|
| Batch AL53417 - VOAs in Water GCMS | | | | | | | | | | |
| Matrix Spike (AL53417-MS1) | Source: 15L1971-01 | | | Prepared: 12/22/15 | | Analyzed: 12/23/15 | | | | |
| Chlorobenzene | 22.3 | 0.50 | ug/L | 20.0 | ND | 112 | 58-137 | | | |
| Chloroethane | 20.2 | 0.50 | ug/L | 20.0 | ND | 101 | 59-141 | | | |
| Chloroform | 23.7 | 0.50 | ug/L | 20.0 | ND | 118 | 36-151 | | | |
| Chloromethane | 16.8 | 0.50 | ug/L | 20.0 | ND | 84.0 | 69-149 | | | |
| 2-Chlorotoluene | 23.5 | 0.50 | ug/L | 20.0 | ND | 118 | 54-150 | | | |
| 4-Chlorotoluene | 23.9 | 0.50 | ug/L | 20.0 | ND | 120 | 59-140 | | | |
| Dibromochloromethane | 17.9 | 0.50 | ug/L | 20.0 | ND | 89.3 | 54-157 | | | |
| 1,2-Dibromo-3-chloropropane | 16.6 | 2.0 | ug/L | 20.0 | ND | 82.9 | 54-137 | | | |
| 1,2-Dibromoethane (EDB) | 22.6 | 0.50 | ug/L | 20.0 | ND | 113 | 40-147 | | | |
| Dibromomethane | 24.1 | 0.50 | ug/L | 20.0 | ND | 120 | 59-139 | | | |
| 1,2-Dichlorobenzene | 22.5 | 0.50 | ug/L | 20.0 | ND | 113 | 57-137 | | | |
| 1,3-Dichlorobenzene | 23.0 | 0.50 | ug/L | 20.0 | ND | 115 | 54-137 | | | |
| 1,4-Dichlorobenzene | 21.9 | 0.50 | ug/L | 20.0 | ND | 109 | 61-131 | | | |
| Dichlorodifluoromethane | 18.6 | 0.50 | ug/L | 20.0 | ND | 93.2 | 39-162 | | | |
| 1,1-Dichloroethane | 22.6 | 0.50 | ug/L | 20.0 | ND | 113 | 64-136 | | | |
| 1,2-Dichloroethane | 22.1 | 0.50 | ug/L | 20.0 | ND | 111 | 58-133 | | | |
| 1,1-Dichloroethene | 21.7 | 0.50 | ug/L | 20.0 | ND | 108 | 45-178 | | | |
| cis-1,2-Dichloroethene | 22.4 | 0.50 | ug/L | 20.0 | ND | 112 | 66-141 | | | |
| trans-1,2-Dichloroethene | 22.0 | 0.50 | ug/L | 20.0 | ND | 110 | 59-151 | | | |
| 1,2-Dichloropropane | 22.4 | 0.50 | ug/L | 20.0 | ND | 112 | 62-128 | | | |
| 1,3-Dichloropropane | 22.6 | 0.50 | ug/L | 20.0 | ND | 113 | 62-139 | | | |
| 2,2-Dichloropropane | 25.0 | 0.50 | ug/L | 20.0 | ND | 125 | 40-167 | | | |
| 1,1-Dichloropropene | 24.3 | 0.50 | ug/L | 20.0 | ND | 122 | 58-148 | | | |
| cis-1,3-Dichloropropene | 19.1 | 0.50 | ug/L | 20.0 | ND | 95.5 | 50-140 | | | |
| trans-1,3-Dichloropropene | 19.5 | 0.50 | ug/L | 20.0 | ND | 97.6 | 40-144 | | | |
| Ethylbenzene | 23.6 | 0.50 | ug/L | 20.0 | ND | 118 | 59-147 | | | |
| 2-Hexanone | 26.2 | 5.0 | ug/L | 20.0 | ND | 131 | 70-130 | | | QM-05 |
| Hexachlorobutadiene | 21.7 | 0.50 | ug/L | 20.0 | ND | 108 | 56-149 | | | |
| Isopropylbenzene | 24.1 | 0.50 | ug/L | 20.0 | ND | 120 | 56-134 | | | |
| p-Isopropyltoluene | 25.4 | 0.50 | ug/L | 20.0 | ND | 127 | 54-148 | | | |
| Methyl ethyl ketone | 55.7 | 1.0 | ug/L | 40.0 | ND | 139 | 62-126 | | | QM-05 |
| Methyl isobutyl ketone | 46.9 | 1.0 | ug/L | 40.0 | ND | 117 | 66-127 | | | |
| Methyl tert-butyl ether | 19.6 | 0.50 | ug/L | 20.0 | ND | 97.9 | 55-144 | | | |

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Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|---|--------|---------------------------|-------|-------------|--------------------|------|--------------------|------|-----------|------|
| Batch AL53417 - VOAs in Water GCMS | | | | | | | | | | |
| Matrix Spike (AL53417-MS1) | | Source: 15L1971-01 | | | Prepared: 12/22/15 | | Analyzed: 12/23/15 | | | |
| Methylene chloride | 18.8 | 0.50 | ug/L | 20.0 | ND | 94.0 | 43-143 | | | |
| Naphthalene | 19.9 | 0.50 | ug/L | 20.0 | ND | 99.5 | 52-157 | | | |
| n-Propylbenzene | 25.6 | 0.50 | ug/L | 20.0 | ND | 128 | 55-145 | | | |
| Styrene | 23.1 | 0.50 | ug/L | 20.0 | ND | 116 | 51-157 | | | |
| 1,1,1,2-Tetrachloroethane | 19.6 | 0.50 | ug/L | 20.0 | ND | 98.2 | 58-146 | | | |
| 1,1,2,2-Tetrachloroethane | 24.6 | 0.50 | ug/L | 20.0 | ND | 123 | 73-127 | | | |
| Tetrachloroethene | 22.2 | 0.50 | ug/L | 20.0 | ND | 111 | 49-148 | | | |
| Toluene | 22.7 | 0.30 | ug/L | 20.0 | ND | 114 | 59-147 | | | |
| 1,2,3-Trichlorobenzene | 21.8 | 0.50 | ug/L | 20.0 | ND | 109 | 50-161 | | | |
| 1,2,4-Trichlorobenzene | 19.9 | 0.50 | ug/L | 20.0 | ND | 99.3 | 50-150 | | | |
| 1,1,1-Trichloroethane | 20.7 | 0.50 | ug/L | 20.0 | ND | 104 | 62-144 | | | |
| 1,1,2-Trichloroethane | 22.9 | 0.50 | ug/L | 20.0 | ND | 114 | 62-129 | | | |
| Trichloroethene | 23.0 | 0.50 | ug/L | 20.0 | ND | 115 | 58-140 | | | |
| Trichlorofluoromethane | 22.9 | 0.50 | ug/L | 20.0 | ND | 115 | 56-144 | | | |
| Trichlorotrifluoroethane | 21.4 | 0.50 | ug/L | 20.0 | ND | 107 | 59-139 | | | |
| 1,2,3-Trichloropropane | 23.2 | 0.50 | ug/L | 20.0 | ND | 116 | 61-139 | | | |
| 1,2,4-Trimethylbenzene | 23.5 | 0.50 | ug/L | 20.0 | ND | 118 | 58-152 | | | |
| 1,3,5-Trimethylbenzene | 24.9 | 0.50 | ug/L | 20.0 | ND | 125 | 58-148 | | | |
| Vinyl chloride | 19.0 | 0.50 | ug/L | 20.0 | ND | 95.0 | 53-160 | | | |
| Vinyl acetate | 41.7 | 1.0 | ug/L | 40.0 | ND | 104 | 70-130 | | | |
| m,p-Xylene | 47.2 | 0.50 | ug/L | 40.0 | ND | 118 | 53-147 | | | |
| o-Xylene | 24.3 | 0.50 | ug/L | 20.0 | ND | 121 | 55-148 | | | |
| Xylenes (total) | 71.5 | 0.50 | ug/L | 60.0 | ND | 119 | 49-153 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 23.2 | | ug/L | 25.0 | | 92.6 | 46-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 23.7 | | ug/L | 25.0 | | 94.8 | 59-132 | | | |
| <i>Surrogate: Bromofluorobenzene</i> | 24.6 | | ug/L | 25.0 | | 98.3 | 81-135 | | | |
| Matrix Spike Dup (AL53417-MSD1) | | Source: 15L1971-01 | | | Prepared: 12/22/15 | | Analyzed: 12/23/15 | | | |
| Acetone | 97.5 | 5.0 | ug/L | 80.0 | ND | 122 | 32-164 | 12.8 | 25 | |
| Benzene | 21.8 | 0.30 | ug/L | 20.0 | ND | 109 | 58-139 | 2.99 | 25 | |
| Bromobenzene | 23.0 | 0.50 | ug/L | 20.0 | ND | 115 | 63-143 | 1.94 | 25 | |
| Bromochloromethane | 23.1 | 0.50 | ug/L | 20.0 | ND | 116 | 60-141 | 1.08 | 25 | |
| Bromodichloromethane | 19.0 | 0.50 | ug/L | 20.0 | ND | 95.0 | 62-140 | 2.61 | 25 | |

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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|---|--------|-----------------|-------|-------------|---------------|------|-------------|-------|-----------|------|
| Batch AL53417 - VOAs in Water GCMS | | | | | | | | | | |
| Matrix Spike Dup (AL53417-MSD1) | | | | | | | | | | |
| Source: 15L1971-01 | | | | | | | | | | |
| Prepared: 12/22/15 Analyzed: 12/23/15 | | | | | | | | | | |
| Bromoform | 17.2 | 0.50 | ug/L | 20.0 | ND | 86.2 | 47-165 | 6.47 | 25 | |
| Bromomethane | 17.1 | 0.50 | ug/L | 20.0 | ND | 85.6 | 30-163 | 0.641 | 25 | |
| n-Butylbenzene | 21.2 | 0.50 | ug/L | 20.0 | ND | 106 | 57-147 | 0.378 | 25 | |
| sec-Butylbenzene | 24.1 | 0.50 | ug/L | 20.0 | ND | 121 | 64-155 | 0.413 | 25 | |
| tert-Butylbenzene | 24.6 | 0.50 | ug/L | 20.0 | ND | 123 | 57-150 | 0.688 | 25 | |
| Carbon disulfide | 19.2 | 5.0 | ug/L | 20.0 | ND | 95.8 | 70-130 | 5.52 | 30 | |
| Carbon tetrachloride | 18.8 | 0.50 | ug/L | 20.0 | ND | 93.8 | 65-153 | 3.36 | 25 | |
| Chlorobenzene | 21.9 | 0.50 | ug/L | 20.0 | ND | 109 | 58-137 | 1.99 | 25 | |
| Chloroethane | 19.6 | 0.50 | ug/L | 20.0 | ND | 98.0 | 59-141 | 2.77 | 25 | |
| Chloroform | 23.3 | 0.50 | ug/L | 20.0 | ND | 116 | 36-151 | 1.75 | 25 | |
| Chloromethane | 17.4 | 0.50 | ug/L | 20.0 | ND | 87.0 | 69-149 | 3.63 | 25 | |
| 2-Chlorotoluene | 23.2 | 0.50 | ug/L | 20.0 | ND | 116 | 54-150 | 1.28 | 25 | |
| 4-Chlorotoluene | 23.6 | 0.50 | ug/L | 20.0 | ND | 118 | 59-140 | 1.52 | 25 | |
| Dibromochloromethane | 18.8 | 0.50 | ug/L | 20.0 | ND | 94.0 | 54-157 | 5.13 | 25 | |
| 1,2-Dibromo-3-chloropropane | 18.3 | 2.0 | ug/L | 20.0 | ND | 91.6 | 54-137 | 10.0 | 25 | |
| 1,2-Dibromoethane (EDB) | 22.7 | 0.50 | ug/L | 20.0 | ND | 114 | 40-147 | 0.530 | 25 | |
| Dibromomethane | 23.9 | 0.50 | ug/L | 20.0 | ND | 119 | 59-139 | 0.834 | 25 | |
| 1,2-Dichlorobenzene | 22.1 | 0.50 | ug/L | 20.0 | ND | 110 | 57-137 | 1.88 | 25 | |
| 1,3-Dichlorobenzene | 22.6 | 0.50 | ug/L | 20.0 | ND | 113 | 54-137 | 1.53 | 25 | |
| 1,4-Dichlorobenzene | 21.2 | 0.50 | ug/L | 20.0 | ND | 106 | 61-131 | 3.06 | 25 | |
| Dichlorodifluoromethane | 18.0 | 0.50 | ug/L | 20.0 | ND | 89.9 | 39-162 | 3.66 | 25 | |
| 1,1-Dichloroethane | 22.0 | 0.50 | ug/L | 20.0 | ND | 110 | 64-136 | 2.51 | 25 | |
| 1,2-Dichloroethane | 21.6 | 0.50 | ug/L | 20.0 | ND | 108 | 58-133 | 2.29 | 25 | |
| 1,1-Dichloroethene | 22.1 | 0.50 | ug/L | 20.0 | ND | 110 | 45-178 | 1.83 | 25 | |
| cis-1,2-Dichloroethene | 22.0 | 0.50 | ug/L | 20.0 | ND | 110 | 66-141 | 1.71 | 25 | |
| trans-1,2-Dichloroethene | 21.8 | 0.50 | ug/L | 20.0 | ND | 109 | 59-151 | 0.823 | 25 | |
| 1,2-Dichloropropane | 21.9 | 0.50 | ug/L | 20.0 | ND | 109 | 62-128 | 2.39 | 25 | |
| 1,3-Dichloropropane | 22.4 | 0.50 | ug/L | 20.0 | ND | 112 | 62-139 | 1.02 | 25 | |
| 2,2-Dichloropropane | 24.8 | 0.50 | ug/L | 20.0 | ND | 124 | 40-167 | 0.603 | 25 | |
| 1,1-Dichloropropene | 24.2 | 0.50 | ug/L | 20.0 | ND | 121 | 58-148 | 0.371 | 25 | |
| cis-1,3-Dichloropropene | 20.0 | 0.50 | ug/L | 20.0 | ND | 100 | 50-140 | 4.60 | 25 | |
| trans-1,3-Dichloropropene | 20.2 | 0.50 | ug/L | 20.0 | ND | 101 | 40-144 | 3.57 | 25 | |
| Ethylbenzene | 23.3 | 0.50 | ug/L | 20.0 | ND | 116 | 59-147 | 1.11 | 25 | |

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Robert A Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|---|--------|---------------------------|-------|-------------|--------------------|------|--------------------|-------|-----------|-------|
| Batch AL53417 - VOAs in Water GCMS | | | | | | | | | | |
| Matrix Spike Dup (AL53417-MSD1) | | Source: 15L1971-01 | | | Prepared: 12/22/15 | | Analyzed: 12/23/15 | | | |
| Hexachlorobutadiene | 22.0 | 0.50 | ug/L | 20.0 | ND | 110 | 56-149 | 1.69 | 25 | |
| 2-Hexanone | 25.6 | 5.0 | ug/L | 20.0 | ND | 128 | 70-130 | 2.32 | 30 | |
| Isopropylbenzene | 23.9 | 0.50 | ug/L | 20.0 | ND | 120 | 56-134 | 0.709 | 25 | |
| p-Isopropyltoluene | 25.1 | 0.50 | ug/L | 20.0 | ND | 126 | 54-148 | 0.911 | 25 | |
| Methyl ethyl ketone | 60.2 | 1.0 | ug/L | 40.0 | ND | 151 | 62-126 | 7.79 | 25 | QM-05 |
| Methyl isobutyl ketone | 48.0 | 1.0 | ug/L | 40.0 | ND | 120 | 66-127 | 2.25 | 25 | |
| Methyl tert-butyl ether | 19.5 | 0.50 | ug/L | 20.0 | ND | 97.7 | 55-144 | 0.204 | 25 | |
| Methylene chloride | 19.7 | 0.50 | ug/L | 20.0 | ND | 98.6 | 43-143 | 4.83 | 25 | |
| Naphthalene | 20.1 | 0.50 | ug/L | 20.0 | ND | 101 | 52-157 | 1.20 | 25 | |
| n-Propylbenzene | 25.3 | 0.50 | ug/L | 20.0 | ND | 126 | 55-145 | 1.34 | 25 | |
| Styrene | 22.9 | 0.50 | ug/L | 20.0 | ND | 115 | 51-157 | 0.912 | 25 | |
| 1,1,1,2-Tetrachloroethane | 20.7 | 0.50 | ug/L | 20.0 | ND | 104 | 58-146 | 5.50 | 25 | |
| 1,1,2,2-Tetrachloroethane | 24.8 | 0.50 | ug/L | 20.0 | ND | 124 | 73-127 | 0.689 | 25 | |
| Tetrachloroethene | 22.6 | 0.50 | ug/L | 20.0 | ND | 113 | 49-148 | 1.43 | 25 | |
| Toluene | 22.5 | 0.30 | ug/L | 20.0 | ND | 113 | 59-147 | 0.929 | 25 | |
| 1,2,3-Trichlorobenzene | 22.2 | 0.50 | ug/L | 20.0 | ND | 111 | 50-161 | 1.64 | 25 | |
| 1,2,4-Trichlorobenzene | 20.0 | 0.50 | ug/L | 20.0 | ND | 99.9 | 50-150 | 0.602 | 25 | |
| 1,1,1-Trichloroethane | 20.6 | 0.50 | ug/L | 20.0 | ND | 103 | 62-144 | 0.533 | 25 | |
| 1,1,2-Trichloroethane | 22.5 | 0.50 | ug/L | 20.0 | ND | 112 | 62-129 | 1.72 | 25 | |
| Trichloroethene | 22.6 | 0.50 | ug/L | 20.0 | ND | 113 | 58-140 | 2.06 | 25 | |
| Trichlorofluoromethane | 22.3 | 0.50 | ug/L | 20.0 | ND | 111 | 56-144 | 2.79 | 25 | |
| Trichlorotrifluoroethane | 22.9 | 0.50 | ug/L | 20.0 | ND | 114 | 59-139 | 6.78 | 25 | |
| 1,2,3-Trichloropropane | 23.4 | 0.50 | ug/L | 20.0 | ND | 117 | 61-139 | 0.900 | 25 | |
| 1,2,4-Trimethylbenzene | 23.2 | 0.50 | ug/L | 20.0 | ND | 116 | 58-152 | 1.16 | 25 | |
| 1,3,5-Trimethylbenzene | 24.7 | 0.50 | ug/L | 20.0 | ND | 124 | 58-148 | 0.806 | 25 | |
| Vinyl acetate | 41.5 | 1.0 | ug/L | 40.0 | ND | 104 | 70-130 | 0.385 | 25 | |
| Vinyl chloride | 16.8 | 0.50 | ug/L | 20.0 | ND | 84.0 | 53-160 | 12.4 | 25 | |
| m,p-Xylene | 46.3 | 0.50 | ug/L | 40.0 | ND | 116 | 53-147 | 1.92 | 25 | |
| o-Xylene | 24.0 | 0.50 | ug/L | 20.0 | ND | 120 | 55-148 | 1.16 | 25 | |
| Xylenes (total) | 70.3 | 0.50 | ug/L | 60.0 | ND | 117 | 49-153 | 1.66 | 25 | |
| Surrogate: Dibromofluoromethane | 22.4 | | ug/L | 25.0 | | 89.8 | 46-130 | | | |
| Surrogate: Toluene-d8 | 23.7 | | ug/L | 25.0 | | 94.8 | 59-132 | | | |

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Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

| Analyte(s) | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Flag |
|---|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|
| Batch AL53417 - VOAs in Water GCMS | | | | | | | | | | |
| Matrix Spike Dup (AL53417-MSD1) | | | | | | | | | | |
| Source: 15L1971-01 | | | | | | | | | | |
| Prepared: 12/22/15 Analyzed: 12/23/15 | | | | | | | | | | |
| <i>Surrogate: Bromofluorobenzene</i> | 24.2 | | ug/L | 25.0 | | 96.8 | 81-135 | | | |



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Fairfield, CA 94534

Project Manager: Jeff Monroe
Project: Water Quality
Project Number: 8477 Patterson Pass

Reported:
01/12/16 13:59

Notes and Definitions

A Absent

P Present

QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

REC Recovery

RPD Relative Percent Difference



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1512A28

Report Created for: Alpha Analytical Laboratories
208 Mason Street
Ukiah, CA 95482

Project Contact: David S. Pingatore
Project P.O.:
Project Name: 15L2340

Project Received: 12/24/2015

Analytical Report reviewed & approved for release on 01/04/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Alpha Analytical Laboratories

Project: 15L2340

WorkOrder: 1512A28

Glossary Abbreviation

| | |
|--------------|--|
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| DI WET | (DISTLC) Waste Extraction Test using DI water |
| DISS | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample) |
| DLT | Dilution Test |
| DUP | Duplicate |
| EDL | Estimated Detection Limit |
| ITEF | International Toxicity Equivalence Factor |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| N/A | Not Applicable |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Data Not Reported due to matrix interference or insufficient sample amount. |
| PDS | Post Digestion Spike |
| PDSD | Post Digestion Spike Duplicate |
| PF | Prep Factor |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| SPLP | Synthetic Precipitation Leachate Procedure |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |

Analytical Qualifiers

a19 reporting limit near, but not identical to our standard reporting limit due to variable water sample volume



Analytical Report

Client: Alpha Analytical Laboratories
Date Received: 12/24/15 13:01
Date Prepared: 12/24/15
Project: 15L2340

WorkOrder: 1512A28
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|----------|
| 15L2340-01 Domestic Well #1 | 1512A28-001A | Water | 12/21/2015 13:05 | GC21 | 114688 |
| Analytes | Result | RL | DF | Date Analyzed | |
| Acenaphthene | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Acenaphthylene | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Acetochlor | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Anthracene | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Benzidine | ND | 9.6 | 1 | 12/29/2015 16:36 | |
| Benzo (a) anthracene | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Benzo (a) pyrene | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Benzo (b) fluoranthene | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Benzo (g,h,i) perylene | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Benzo (k) fluoranthene | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Benzyl Alcohol | ND | 9.6 | 1 | 12/29/2015 16:36 | |
| 1,1-Biphenyl | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Bis (2-chloroethoxy) Methane | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Bis (2-chloroethyl) Ether | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Bis (2-chloroisopropyl) Ether | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Bis (2-ethylhexyl) Adipate | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Bis (2-ethylhexyl) Phthalate | ND | 3.8 | 1 | 12/29/2015 16:36 | |
| 4-Bromophenyl Phenyl Ether | ND | 9.6 | 1 | 12/29/2015 16:36 | |
| Butylbenzyl Phthalate | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| 4-Chloroaniline | ND | 3.8 | 1 | 12/29/2015 16:36 | |
| 4-Chloro-3-methylphenol | ND | 9.6 | 1 | 12/29/2015 16:36 | |
| 2-Chloronaphthalene | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| 2-Chlorophenol | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| 4-Chlorophenyl Phenyl Ether | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Chrysene | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Dibenzo (a,h) anthracene | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Dibenzofuran | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Di-n-butyl Phthalate | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| 1,2-Dichlorobenzene | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| 1,3-Dichlorobenzene | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| 1,4-Dichlorobenzene | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| 3,3-Dichlorobenzidine | ND | 3.8 | 1 | 12/29/2015 16:36 | |
| 2,4-Dichlorophenol | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Diethyl Phthalate | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| 2,4-Dimethylphenol | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| Dimethyl Phthalate | ND | 1.9 | 1 | 12/29/2015 16:36 | |
| 4,6-Dinitro-2-methylphenol | ND | 9.6 | 1 | 12/29/2015 16:36 | |

(Cont.)



Analytical Report

Client: Alpha Analytical Laboratories
Date Received: 12/24/15 13:01
Date Prepared: 12/24/15
Project: 15L2340

WorkOrder: 1512A28
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------------------------|--------------|--------|------------------|------------|----------|
| 15L2340-01 Domestic Well #1 | 1512A28-001A | Water | 12/21/2015 13:05 | GC21 | 114688 |

| Analytes | Result | RL | DF | Date Analyzed |
|---------------------------------|--------|-----|----|------------------|
| 2,4-Dinitrophenol | ND | 24 | 1 | 12/29/2015 16:36 |
| 2,4-Dinitrotoluene | ND | 1.9 | 1 | 12/29/2015 16:36 |
| 2,6-Dinitrotoluene | ND | 1.9 | 1 | 12/29/2015 16:36 |
| Di-n-octyl Phthalate | ND | 1.9 | 1 | 12/29/2015 16:36 |
| 1,2-Diphenylhydrazine | ND | 1.9 | 1 | 12/29/2015 16:36 |
| Fluoranthene | ND | 1.9 | 1 | 12/29/2015 16:36 |
| Fluorene | ND | 1.9 | 1 | 12/29/2015 16:36 |
| Hexachlorobenzene | ND | 1.9 | 1 | 12/29/2015 16:36 |
| Hexachlorobutadiene | ND | 1.9 | 1 | 12/29/2015 16:36 |
| Hexachlorocyclopentadiene | ND | 9.6 | 1 | 12/29/2015 16:36 |
| Hexachloroethane | ND | 1.9 | 1 | 12/29/2015 16:36 |
| Indeno (1,2,3-cd) pyrene | ND | 1.9 | 1 | 12/29/2015 16:36 |
| Isophorone | ND | 1.9 | 1 | 12/29/2015 16:36 |
| 2-Methylnaphthalene | ND | 1.9 | 1 | 12/29/2015 16:36 |
| 2-Methylphenol (o-Cresol) | ND | 1.9 | 1 | 12/29/2015 16:36 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | 1.9 | 1 | 12/29/2015 16:36 |
| Naphthalene | ND | 1.9 | 1 | 12/29/2015 16:36 |
| 2-Nitroaniline | ND | 9.6 | 1 | 12/29/2015 16:36 |
| 3-Nitroaniline | ND | 9.6 | 1 | 12/29/2015 16:36 |
| 4-Nitroaniline | ND | 9.6 | 1 | 12/29/2015 16:36 |
| Nitrobenzene | ND | 1.9 | 1 | 12/29/2015 16:36 |
| 2-Nitrophenol | ND | 9.6 | 1 | 12/29/2015 16:36 |
| 4-Nitrophenol | ND | 9.6 | 1 | 12/29/2015 16:36 |
| N-Nitrosodiphenylamine | ND | 1.9 | 1 | 12/29/2015 16:36 |
| N-Nitrosodi-n-propylamine | ND | 1.9 | 1 | 12/29/2015 16:36 |
| Pentachlorophenol | ND | 9.6 | 1 | 12/29/2015 16:36 |
| Phenanthrene | ND | 1.9 | 1 | 12/29/2015 16:36 |
| Phenol | ND | 1.9 | 1 | 12/29/2015 16:36 |
| Pyrene | ND | 1.9 | 1 | 12/29/2015 16:36 |
| 1,2,4-Trichlorobenzene | ND | 1.9 | 1 | 12/29/2015 16:36 |
| 2,4,5-Trichlorophenol | ND | 1.9 | 1 | 12/29/2015 16:36 |
| 2,4,6-Trichlorophenol | ND | 1.9 | 1 | 12/29/2015 16:36 |

(Cont.)



Analytical Report

Client: Alpha Analytical Laboratories
Date Received: 12/24/15 13:01
Date Prepared: 12/24/15
Project: 15L2340

WorkOrder: 1512A28
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------------------------|--------------|--------|------------------|------------|----------|
| 15L2340-01 Domestic Well #1 | 1512A28-001A | Water | 12/21/2015 13:05 | GC21 | 114688 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| 2-Fluorophenol | 47 | 8-130 | | 12/29/2015 16:36 |
| Phenol-d5 | 35 | 5-130 | | 12/29/2015 16:36 |
| Nitrobenzene-d5 | 96 | 20-140 | | 12/29/2015 16:36 |
| 2-Fluorobiphenyl | 93 | 40-140 | | 12/29/2015 16:36 |
| 2,4,6-Tribromophenol | 112 | 16-180 | | 12/29/2015 16:36 |
| 4-Terphenyl-d14 | 107 | 40-170 | | 12/29/2015 16:36 |

Analyst(s): HK



Analytical Report

Client: Alpha Analytical Laboratories
Date Received: 12/24/15 13:01
Date Prepared: 12/24/15
Project: 15L2340

WorkOrder: 1512A28
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|--|--------------|--------|------------------|------------|----------|
| 15L2340-02 Domestic Well #2 & Irrigation | 1512A28-002A | Water | 12/21/2015 13:05 | GC21 | 114688 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|-----|----|------------------|
| Acenaphthene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Acenaphthylene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Acetochlor | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Anthracene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Benzidine | ND | 11 | 1 | 12/29/2015 17:03 |
| Benzo (a) anthracene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Benzo (a) pyrene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Benzo (b) fluoranthene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Benzo (g,h,i) perylene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Benzo (k) fluoranthene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Benzyl Alcohol | ND | 11 | 1 | 12/29/2015 17:03 |
| 1,1-Biphenyl | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Bis (2-chloroethoxy) Methane | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Bis (2-chloroethyl) Ether | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Bis (2-chloroisopropyl) Ether | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Bis (2-ethylhexyl) Adipate | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Bis (2-ethylhexyl) Phthalate | ND | 4.3 | 1 | 12/29/2015 17:03 |
| 4-Bromophenyl Phenyl Ether | ND | 11 | 1 | 12/29/2015 17:03 |
| Butylbenzyl Phthalate | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 4-Chloroaniline | ND | 4.3 | 1 | 12/29/2015 17:03 |
| 4-Chloro-3-methylphenol | ND | 11 | 1 | 12/29/2015 17:03 |
| 2-Chloronaphthalene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 2-Chlorophenol | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 4-Chlorophenyl Phenyl Ether | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Chrysene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Dibenzo (a,h) anthracene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Dibenzofuran | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Di-n-butyl Phthalate | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 1,2-Dichlorobenzene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 1,3-Dichlorobenzene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 1,4-Dichlorobenzene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 3,3-Dichlorobenzidine | ND | 4.3 | 1 | 12/29/2015 17:03 |
| 2,4-Dichlorophenol | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Diethyl Phthalate | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 2,4-Dimethylphenol | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Dimethyl Phthalate | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 4,6-Dinitro-2-methylphenol | ND | 11 | 1 | 12/29/2015 17:03 |

(Cont.)



Analytical Report

Client: Alpha Analytical Laboratories
Date Received: 12/24/15 13:01
Date Prepared: 12/24/15
Project: 15L2340

WorkOrder: 1512A28
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|--|--------------|--------|------------------|------------|----------|
| 15L2340-02 Domestic Well #2 & Irrigation | 1512A28-002A | Water | 12/21/2015 13:05 | GC21 | 114688 |

| Analytes | Result | RL | DF | Date Analyzed |
|---------------------------------|--------|-----|----|------------------|
| 2,4-Dinitrophenol | ND | 27 | 1 | 12/29/2015 17:03 |
| 2,4-Dinitrotoluene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 2,6-Dinitrotoluene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Di-n-octyl Phthalate | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 1,2-Diphenylhydrazine | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Fluoranthene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Fluorene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Hexachlorobenzene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Hexachlorobutadiene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Hexachlorocyclopentadiene | ND | 11 | 1 | 12/29/2015 17:03 |
| Hexachloroethane | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Indeno (1,2,3-cd) pyrene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Isophorone | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 2-Methylnaphthalene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 2-Methylphenol (o-Cresol) | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Naphthalene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 2-Nitroaniline | ND | 11 | 1 | 12/29/2015 17:03 |
| 3-Nitroaniline | ND | 11 | 1 | 12/29/2015 17:03 |
| 4-Nitroaniline | ND | 11 | 1 | 12/29/2015 17:03 |
| Nitrobenzene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 2-Nitrophenol | ND | 11 | 1 | 12/29/2015 17:03 |
| 4-Nitrophenol | ND | 11 | 1 | 12/29/2015 17:03 |
| N-Nitrosodiphenylamine | ND | 2.2 | 1 | 12/29/2015 17:03 |
| N-Nitrosodi-n-propylamine | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Pentachlorophenol | ND | 11 | 1 | 12/29/2015 17:03 |
| Phenanthrene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Phenol | ND | 2.2 | 1 | 12/29/2015 17:03 |
| Pyrene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 1,2,4-Trichlorobenzene | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 2,4,5-Trichlorophenol | ND | 2.2 | 1 | 12/29/2015 17:03 |
| 2,4,6-Trichlorophenol | ND | 2.2 | 1 | 12/29/2015 17:03 |

(Cont.)



Analytical Report

Client: Alpha Analytical Laboratories
Date Received: 12/24/15 13:01
Date Prepared: 12/24/15
Project: 15L2340

WorkOrder: 1512A28
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|--|--------------|--------|------------------|------------|----------|
| 15L2340-02 Domestic Well #2 & Irrigation | 1512A28-002A | Water | 12/21/2015 13:05 | GC21 | 114688 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|----|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| 2-Fluorophenol | 46 | | 8-130 | 12/29/2015 17:03 |
| Phenol-d5 | 34 | | 5-130 | 12/29/2015 17:03 |
| Nitrobenzene-d5 | 83 | | 20-140 | 12/29/2015 17:03 |
| 2-Fluorobiphenyl | 79 | | 40-140 | 12/29/2015 17:03 |
| 2,4,6-Tribromophenol | 92 | | 16-180 | 12/29/2015 17:03 |
| 4-Terphenyl-d14 | 94 | | 40-170 | 12/29/2015 17:03 |

Analyst(s): HK

Analytical Comments: a19



Quality Control Report

Client: Alpha Analytical Laboratories
Date Prepared: 12/24/15
Date Analyzed: 12/24/15
Instrument: GC21
Matrix: Water
Project: 15L2340

WorkOrder: 1512A28
BatchID: 114688
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS-114688

QC Summary Report for SW8270C

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|-----|---------|------------|----------|------------|
| Acenaphthene | ND | 17.2 | 1.0 | 20 | - | 86 | 47-145 |
| Acenaphthylene | ND | - | 1.0 | - | - | - | - |
| Anthracene | ND | - | 1.0 | - | - | - | - |
| Benzidine | ND | - | 5.0 | - | - | - | - |
| Benzo (a) anthracene | ND | - | 1.0 | - | - | - | - |
| Benzo (a) pyrene | ND | - | 1.0 | - | - | - | - |
| Benzo (b) fluoranthene | ND | - | 1.0 | - | - | - | - |
| Benzo (g,h,i) perylene | ND | - | 1.0 | - | - | - | - |
| Benzo (k) fluoranthene | ND | - | 1.0 | - | - | - | - |
| Benzyl Alcohol | ND | - | 5.0 | - | - | - | - |
| Bis (2-chloroethoxy) Methane | ND | - | 1.0 | - | - | - | - |
| Bis (2-chloroethyl) Ether | ND | - | 1.0 | - | - | - | - |
| Bis (2-chloroisopropyl) Ether | ND | - | 1.0 | - | - | - | - |
| Bis (2-ethylhexyl) Adipate | ND | - | 1.0 | - | - | - | - |
| Bis (2-ethylhexyl) Phthalate | ND | - | 1.0 | - | - | - | - |
| 4-Bromophenyl Phenyl Ether | ND | - | 5.0 | - | - | - | - |
| Butylbenzyl Phthalate | ND | - | 1.0 | - | - | - | - |
| 4-Chloroaniline | ND | - | 2.0 | - | - | - | - |
| 4-Chloro-3-methylphenol | ND | 19.0 | 1.0 | 20 | - | 95 | 22-147 |
| 2-Chloronaphthalene | ND | - | 1.0 | - | - | - | - |
| 2-Chlorophenol | ND | 17.2 | 1.0 | 20 | - | 86 | 23-134 |
| 4-Chlorophenyl Phenyl Ether | ND | - | 1.0 | - | - | - | - |
| Chrysene | ND | - | 1.0 | - | - | - | - |
| Dibenzo (a,h) anthracene | ND | - | 1.0 | - | - | - | - |
| Dibenzofuran | ND | - | 1.0 | - | - | - | - |
| Di-n-butyl Phthalate | ND | - | 1.0 | - | - | - | - |
| 1,2-Dichlorobenzene | ND | - | 1.0 | - | - | - | - |
| 1,3-Dichlorobenzene | ND | - | 1.0 | - | - | - | - |
| 1,4-Dichlorobenzene | ND | 15.4 | 1.0 | 20 | - | 77 | 20-124 |
| 3,3-Dichlorobenzidine | ND | - | 2.0 | - | - | - | - |
| 2,4-Dichlorophenol | ND | - | 1.0 | - | - | - | - |
| Diethyl Phthalate | ND | - | 1.0 | - | - | - | - |
| 2,4-Dimethylphenol | ND | - | 1.0 | - | - | - | - |
| Dimethyl Phthalate | ND | - | 1.0 | - | - | - | - |
| 4,6-Dinitro-2-methylphenol | ND | - | 5.0 | - | - | - | - |
| 2,4-Dinitrophenol | ND | - | 5.0 | - | - | - | - |
| 2,4-Dinitrotoluene | ND | 17.2 | 1.0 | 20 | - | 86 | 39-139 |

(Cont.)



Quality Control Report

Client: Alpha Analytical Laboratories
Date Prepared: 12/24/15
Date Analyzed: 12/24/15
Instrument: GC21
Matrix: Water
Project: 15L2340

WorkOrder: 1512A28
BatchID: 114688
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS-114688

QC Summary Report for SW8270C

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---------------------------------|-----------|------------|-----|---------|------------|----------|------------|
| 2,6-Dinitrotoluene | ND | - | 1.0 | - | - | - | - |
| Di-n-octyl Phthalate | ND | - | 2.0 | - | - | - | - |
| 1,2-Diphenylhydrazine | ND | - | 1.0 | - | - | - | - |
| Fluoranthene | ND | - | 1.0 | - | - | - | - |
| Fluorene | ND | - | 1.0 | - | - | - | - |
| Hexachlorobenzene | ND | - | 1.0 | - | - | - | - |
| Hexachlorobutadiene | ND | - | 1.0 | - | - | - | - |
| Hexachlorocyclopentadiene | ND | - | 5.0 | - | - | - | - |
| Hexachloroethane | ND | - | 1.0 | - | - | - | - |
| Indeno (1,2,3-cd) pyrene | ND | - | 1.0 | - | - | - | - |
| Isophorone | ND | - | 1.0 | - | - | - | - |
| 2-Methylnaphthalene | ND | - | 1.0 | - | - | - | - |
| 2-Methylphenol (o-cresol) | ND | - | 1.0 | - | - | - | - |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | - | 1.0 | - | - | - | - |
| Naphthalene | ND | - | 1.0 | - | - | - | - |
| 2-Nitroaniline | ND | - | 5.0 | - | - | - | - |
| 3-Nitroaniline | ND | - | 5.0 | - | - | - | - |
| 4-Nitroaniline | ND | - | 5.0 | - | - | - | - |
| Nitrobenzene | ND | - | 1.0 | - | - | - | - |
| 2-Nitrophenol | ND | - | 5.0 | - | - | - | - |
| 4-Nitrophenol | ND | 90.8 | 5.0 | 100 | - | 91 | 0-132 |
| N-Nitrosodimethylamine | ND | - | 5.0 | - | - | - | - |
| N-Nitrosodiphenylamine | ND | - | 1.0 | - | - | - | - |
| N-Nitrosodi-n-propylamine | ND | 16.2 | 1.0 | 20 | - | 81 | 0-230 |
| Pentachlorophenol | ND | 34.2 | 5.0 | 40 | - | 85 | 14-176 |
| Phenanthrene | ND | - | 1.0 | - | - | - | - |
| Phenol | ND | 16.7 | 1.0 | 20 | - | 84 | 5-112 |
| Pyrene | ND | 18.1 | 1.0 | 20 | - | 91 | 52-115 |
| 1,2,4-Trichlorobenzene | ND | 16.7 | 1.0 | 20 | - | 84 | 44-142 |
| 2,4,5-Trichlorophenol | ND | - | 1.0 | - | - | - | - |
| 2,4,6-Trichlorophenol | ND | - | 1.0 | - | - | - | - |

(Cont.)



Quality Control Report

Client: Alpha Analytical Laboratories
Date Prepared: 12/24/15
Date Analyzed: 12/24/15
Instrument: GC21
Matrix: Water
Project: 15L2340

WorkOrder: 1512A28
BatchID: 114688
Extraction Method: E625
Analytical Method: SW8270C
Unit: µg/L
Sample ID: MB/LCS-114688

QC Summary Report for SW8270C

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---------------------------|-----------|------------|----|---------|------------|----------|------------|
| Surrogate Recovery | | | | | | | |
| 2-Fluorophenol | 20.6 | 18.0 | | 20 | 103 | 90 | 8-130 |
| Phenol-d5 | 21.3 | 19.3 | | 20 | 106 | 97 | 5-130 |
| Nitrobenzene-d5 | 22.6 | 22.1 | | 20 | 113 | 111 | 20-140 |
| 2-Fluorobiphenyl | 19.9 | 19.3 | | 20 | 100 | 97 | 40-140 |
| 2,4,6-Tribromophenol | 23.1 | 22.0 | | 20 | 115 | 110 | 30-180 |
| Terphenyl-d14 | 20.4 | 20.4 | | 20 | 102 | 102 | 40-170 |

1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1512A28

ClientCode: ALPU

WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 David S. Pingatore
 Alpha Analytical Laboratories
 208 Mason Street
 Ukiah, CA 95482
 (650) 464-3237 FAX: (707) 468-5267

Email: sspeaks@alpha-labs.com;david@alpha-la
 cc/3rd Party:
PO:
 ProjectNo: 15L2340

Bill to:
 Accounts Payable
 Alpha Analytical Laboratories
 208 Mason Street
 Ukiah, CA 95482

Requested TAT: 5 days;

Date Received: 12/23/2015
Date Logged: 12/24/2015

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | | |
|-------------|--|--------|------------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 1512A28-001 | 15L2340-01 Domestic Well #1 | Water | 12/21/2015 13:05 | <input type="checkbox"/> | A | | | | | | | | | | | | |
| 1512A28-002 | 15L2340-01 Domestic Well #2 & Irrigation | Water | 12/21/2015 13:05 | <input type="checkbox"/> | A | | | | | | | | | | | | |

Test Legend:

| | | | | | | | |
|---|--------|----|--|----|--|----|--|
| 1 | 8270_W | 2 | | 3 | | 4 | |
| 5 | | 6 | | 7 | | 8 | |
| 9 | | 10 | | 11 | | 12 | |

Prepared by: Agustina Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: ALPHA ANALYTICAL LABORATORIES

QC Level: LEVEL 2

Work Order: 1512A28

Project: 15L2340

Client Contact: David S. Pingatore

Date Logged: 12/24/2015

Comments:

Contact's Email: sspeaks@alpha-labs.com;david@alpha-labs.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De- chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|---|--------|-----------------|---------------------------|-----------------------|--------------------------|---------------------------|--------|---------------------|--------------------------|--------|
| 1512A28-001A | 15L2340-01 Domestic Well #1 | Water | SW8270C (SVOCs) | 1 | 1LA | <input type="checkbox"/> | 12/21/2015 13:05 | 5 days | None | <input type="checkbox"/> | |
| 1512A28-002A | 15L2340-01 Domestic Well #2 & Irrigation | Water | SW8270C (SVOCs) | 1 | 1LA | <input type="checkbox"/> | 12/21/2015 13:05 | 5 days | None | <input type="checkbox"/> | |

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

SUBCONTRACT ORDER
Alpha Analytical Laboratories, Inc.
15L2340

15/2A28

SENDING LABORATORY:

Alpha Analytical Laboratories, Inc.
208 Mason St.
Ukiah, CA 95482
Phone: (707)468-0401
Fax: (707)468-5267
Project Manager: David S. Pingatore

RECEIVING LABORATORY:

McC Campbell Analytical
1534 Willowpass Rd.
Pittsburg, CA 94565
Phone : (925) 252-9262
Fax: (925) 252-9269
Terms: Net 30

| Analysis | Due | Expires | Comments |
|----------|-----|---------|----------|
|----------|-----|---------|----------|

✓ 15L2340-01 Domestic Well #1 [Water] Sampled 12/21/15 13:05 Pacific

8270 Regular List 01/11/16 12:00 12/28/15 13:05

Containers Supplied:

✓ 1L Amber- Unpres. (H) 1L Amber- Unpres. (I)

✓ 15L2340-02 Domestic Well #2 & Irrigation [Water] Sampled 12/21/15 13:05 Pacific

8270 Regular List 01/11/16 12:00 12/28/15 13:05

Containers Supplied:

1L Amber- Unpres. (H) 1L Amber- Unpres. (I)

Report to State

System Name: _____ Employed by: _____
User ID: _____ Sampler: _____
System Number: _____

w/oc

Released By:  Date: 12/22/15 Received By:  Date: 12/23/15 09:10 A

Released By: _____ Date: _____ Received By: _____ Date: _____



Sample Receipt Checklist

Client Name: **Alpha Analytical Laboratories**
Project Name: **15L2340**
WorkOrder No: **1512A28** Matrix: Water
Carrier: OnTrac

Date and Time Received: **12/23/2015 09:10**
Date Logged: **12/24/2015**
Received by: **Agustina Venegas**
Logged by: **Agustina Venegas**

Chain of Custody (COC) Information

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Sample IDs noted by Client on COC? Yes No
Date and Time of collection noted by Client on COC? Yes No
Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
Shipping container/cooler in good condition? Yes No
Samples in proper containers/bottles? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
Sample/Temp Blank temperature Temp: 6.5°C NA
Water - VOA vials have zero headspace / no bubbles? Yes No NA
Sample labels checked for correct preservation? Yes No
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA
Samples Received on Ice? Yes No
(Ice Type: BLUE ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes No NA
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes No NA

* NOTE: If the "No" box is checked, see comments below.

Comments:



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Tracking Info:

| | |
|---------------------------------|-----------------------------------|
| Tracking Number: | b10313960618 |
| Deliver To: | PITTSBURG, CA |
| Service Commitment Time: | 12/23/2015 by 12:00 PM |
| Delivery Signature: | jana |
| Delivery Time: | 12/23/2015 9:03 AM |
| Delivery Status: | DELIVERED DETAILS |
| Ship Date: | 12/22/2015 |
| Service Code: | SUNRISE |
| Weight: | 45 lbs. |

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Report Date: February 01, 2016

Laboratory Report

David Bush
Environmental Geology Services
6169 Amie Drive
Windsor, CA 95492

Project Name: **8467 Patterson Pass Rd.** **538.0915**
Lab Project Number: **6011223**

This 40 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.

Laboratory Director



Volatile Hydrocarbons by GC/MS

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-----------|-----------------------------------|---------------|------------|
| 6011223-01 | MW-1 | Dichlorodifluoromethane (F-12) | ND | 1.0 |
| | | Chloromethane | ND | 1.0 |
| | | Vinyl chloride | ND | 1.0 |
| | | Chloroethane (CE) | ND | 1.0 |
| | | Bromomethane | ND | 1.0 |
| | | Trichlorofluoromethane (F-11) | ND | 1.0 |
| | | Trichlorotrifluoroethane (F-113) | ND | 1.0 |
| | | 1,1-Dichloroethene (1,1-DCE) | ND | 1.0 |
| | | Methylene chloride | ND | 1.0 |
| | | trans-1,2-Dichloroethene | ND | 1.0 |
| | | 1,1-Dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-Dichloroethene (c1,2-DCE) | ND | 1.0 |
| | | 2,2-Dichloropropane | ND | 1.0 |
| | | Chloroform (THM1) | ND | 1.0 |
| | | Bromochloromethane | ND | 1.0 |
| | | 1,1,1-Trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-Dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-Dichloropropene | ND | 1.0 |
| | | Carbon tetrachloride | ND | 1.0 |
| | | Benzene | ND | 1.0 |
| | | Trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-Dichloropropane (DCP) | ND | 1.0 |
| | | Dibromomethane | ND | 1.0 |
| | | Bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-Dichloropropene | ND | 1.0 |
| | | Toluene | ND | 1.0 |
| | | 1,1,2-Trichloroethane | ND | 1.0 |
| | | 1,3-Dichloropropane | ND | 1.0 |
| | | Dibromochloromethane (THM3) | ND | 1.0 |
| | | Tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-Dibromoethane (EDB) | ND | 1.0 |
| | | Chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-Tetrachloroethane | ND | 1.0 |
| | | Ethylbenzene | ND | 1.0 |
| | | m,p-Xylene | ND | 1.0 |
| | | Styrene | ND | 1.0 |
| | | o-Xylene | ND | 1.0 |
| | | Bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-Tetrachloroethane | ND | 1.0 |
| | | Isopropylbenzene | ND | 1.0 |
| | | 1,2,3-Trichloropropane | ND | 1.0 |
| | | Bromobenzene | ND | 1.0 |
| | | n-Propyl Benzene | ND | 1.0 |
| | | 2-Chlorotoluene | ND | 1.0 |
| | | 4-Chlorotoluene | ND | 1.0 |
| | | 1,3,5-Trimethylbenzene | ND | 1.0 |
| | | tert-Butylbenzene | ND | 1.0 |
| | | 1,2,4-Trimethylbenzene | ND | 1.0 |
| | | sec-Butylbenzene | ND | 1.0 |



Volatile Hydrocarbons by GC/MS

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|----------------------|---------------|--------------------------------|----------------------|------------|
| 6011223-01 | MW-1 | 1,3-Dichlorobenzene | ND | 1.0 |
| | | 1,4-Dichlorobenzene | ND | 1.0 |
| | | 1,2-Dichlorobenzene | ND | 1.0 |
| | | p-Isopropyltoluene | ND | 1.0 |
| | | n-Butylbenzene | ND | 1.0 |
| | | 1,2-Dibromo-3-chloropropane | ND | 1.0 |
| | | 1,2,4-Trichlorobenzene | ND | 1.0 |
| | | Naphthalene | ND | 1.0 |
| | | Hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-Trichlorobenzene | ND | 1.0 |
| | | Tertiary Butyl Alcohol (TBA) | ND | 12 |
| | | Methyl tert-Butyl Ether (MTBE) | ND | 1.0 |
| | | Di-isopropyl Ether (DIPE) | ND | 1.0 |
| | | Ethyl tert-Butyl Ether (ETBE) | ND | 1.0 |
| | | Tert-Amyl Methyl Ether (TAME) | ND | 1.0 |
| Surrogates | Result (µg/L) | % Recovery | Acceptance Range (%) | |
| Dibromofluoromethane | 20.0 | 100 | 70-130 | |
| Toluene-d8 | 20.3 | 101 | 70-130 | |
| 4-Bromofluorobenzene | 19.8 | 99 | 70-130 | |

| | | | | |
|----------------|----------|----------------|-----------|-------------------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/15/16 | QC Batch: B015360 |
| Date Received: | 01/12/16 | Method: | EPA 8260B | |



Volatile Hydrocarbons by GC/MS

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-----------|-----------------------------------|---------------|------------|
| 6011223-02 | MW-2 | Dichlorodifluoromethane (F-12) | ND | 1.0 |
| | | Chloromethane | ND | 1.0 |
| | | Vinyl chloride | ND | 1.0 |
| | | Chloroethane (CE) | ND | 1.0 |
| | | Bromomethane | ND | 1.0 |
| | | Trichlorofluoromethane (F-11) | ND | 1.0 |
| | | Trichlorotrifluoroethane (F-113) | ND | 1.0 |
| | | 1,1-Dichloroethene (1,1-DCE) | ND | 1.0 |
| | | Methylene chloride | ND | 1.0 |
| | | trans-1,2-Dichloroethene | ND | 1.0 |
| | | 1,1-Dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-Dichloroethene (c1,2-DCE) | ND | 1.0 |
| | | 2,2-Dichloropropane | ND | 1.0 |
| | | Chloroform (THM1) | ND | 1.0 |
| | | Bromochloromethane | ND | 1.0 |
| | | 1,1,1-Trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-Dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-Dichloropropene | ND | 1.0 |
| | | Carbon tetrachloride | ND | 1.0 |
| | | Benzene | ND | 1.0 |
| | | Trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-Dichloropropane (DCP) | ND | 1.0 |
| | | Dibromomethane | ND | 1.0 |
| | | Bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-Dichloropropene | ND | 1.0 |
| | | Toluene | ND | 1.0 |
| | | 1,1,2-Trichloroethane | ND | 1.0 |
| | | 1,3-Dichloropropane | ND | 1.0 |
| | | Dibromochloromethane (THM3) | ND | 1.0 |
| | | Tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-Dibromoethane (EDB) | ND | 1.0 |
| | | Chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-Tetrachloroethane | ND | 1.0 |
| | | Ethylbenzene | ND | 1.0 |
| | | m,p-Xylene | ND | 1.0 |
| | | Styrene | ND | 1.0 |
| | | o-Xylene | ND | 1.0 |
| | | Bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-Tetrachloroethane | ND | 1.0 |
| | | Isopropylbenzene | ND | 1.0 |
| | | 1,2,3-Trichloropropane | ND | 1.0 |
| | | Bromobenzene | ND | 1.0 |
| | | n-Propyl Benzene | ND | 1.0 |
| | | 2-Chlorotoluene | ND | 1.0 |
| | | 4-Chlorotoluene | ND | 1.0 |
| | | 1,3,5-Trimethylbenzene | ND | 1.0 |
| | | tert-Butylbenzene | ND | 1.0 |
| | | 1,2,4-Trimethylbenzene | ND | 1.0 |
| | | sec-Butylbenzene | ND | 1.0 |



Volatile Hydrocarbons by GC/MS

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|----------------------|---------------|--------------------------------|----------------------|------------|
| 6011223-02 | MW-2 | 1,3-Dichlorobenzene | ND | 1.0 |
| | | 1,4-Dichlorobenzene | ND | 1.0 |
| | | 1,2-Dichlorobenzene | ND | 1.0 |
| | | p-Isopropyltoluene | ND | 1.0 |
| | | n-Butylbenzene | ND | 1.0 |
| | | 1,2-Dibromo-3-chloropropane | ND | 1.0 |
| | | 1,2,4-Trichlorobenzene | ND | 1.0 |
| | | Naphthalene | ND | 1.0 |
| | | Hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-Trichlorobenzene | ND | 1.0 |
| | | Tertiary Butyl Alcohol (TBA) | ND | 12 |
| | | Methyl tert-Butyl Ether (MTBE) | ND | 1.0 |
| | | Di-isopropyl Ether (DIPE) | ND | 1.0 |
| | | Ethyl tert-Butyl Ether (ETBE) | ND | 1.0 |
| | | Tert-Amyl Methyl Ether (TAME) | ND | 1.0 |
| Surrogates | Result (µg/L) | % Recovery | Acceptance Range (%) | |
| Dibromofluoromethane | 21.4 | 107 | 70-130 | |
| Toluene-d8 | 21.7 | 108 | 70-130 | |
| 4-Bromofluorobenzene | 20.7 | 104 | 70-130 | |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/15/16 | QC Batch: | B015360 |
| Date Received: | 01/12/16 | Method: | EPA 8260B | | |



Volatile Hydrocarbons by GC/MS

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-----------|-----------------------------------|---------------|------------|
| 6011223-03 | MW-3 | Dichlorodifluoromethane (F-12) | ND | 1.0 |
| | | Chloromethane | ND | 1.0 |
| | | Vinyl chloride | ND | 1.0 |
| | | Chloroethane (CE) | ND | 1.0 |
| | | Bromomethane | ND | 1.0 |
| | | Trichlorofluoromethane (F-11) | ND | 1.0 |
| | | Trichlorotrifluoroethane (F-113) | ND | 1.0 |
| | | 1,1-Dichloroethene (1,1-DCE) | ND | 1.0 |
| | | Methylene chloride | ND | 1.0 |
| | | trans-1,2-Dichloroethene | ND | 1.0 |
| | | 1,1-Dichloroethane (1,1-DCA) | ND | 1.0 |
| | | cis-1,2-Dichloroethene (c1,2-DCE) | ND | 1.0 |
| | | 2,2-Dichloropropane | ND | 1.0 |
| | | Chloroform (THM1) | ND | 1.0 |
| | | Bromochloromethane | ND | 1.0 |
| | | 1,1,1-Trichloroethane (TCA) | ND | 1.0 |
| | | 1,2-Dichloroethane (EDC) | ND | 1.0 |
| | | 1,1-Dichloropropene | ND | 1.0 |
| | | Carbon tetrachloride | ND | 1.0 |
| | | Benzene | ND | 1.0 |
| | | Trichloroethene (TCE) | ND | 1.0 |
| | | 1,2-Dichloropropane (DCP) | ND | 1.0 |
| | | Dibromomethane | ND | 1.0 |
| | | Bromodichloromethane (THM2) | ND | 1.0 |
| | | cis-1,3-Dichloropropene | ND | 1.0 |
| | | Toluene | ND | 1.0 |
| | | 1,1,2-Trichloroethane | ND | 1.0 |
| | | 1,3-Dichloropropane | ND | 1.0 |
| | | Dibromochloromethane (THM3) | ND | 1.0 |
| | | Tetrachloroethene (PCE) | ND | 1.0 |
| | | 1,2-Dibromoethane (EDB) | ND | 1.0 |
| | | Chlorobenzene | ND | 1.0 |
| | | 1,1,1,2-Tetrachloroethane | ND | 1.0 |
| | | Ethylbenzene | ND | 1.0 |
| | | m,p-Xylene | ND | 1.0 |
| | | Styrene | ND | 1.0 |
| | | o-Xylene | ND | 1.0 |
| | | Bromoform (THM4) | ND | 1.0 |
| | | 1,1,2,2-Tetrachloroethane | ND | 1.0 |
| | | Isopropylbenzene | ND | 1.0 |
| | | 1,2,3-Trichloropropane | ND | 1.0 |
| | | Bromobenzene | ND | 1.0 |
| | | n-Propyl Benzene | ND | 1.0 |
| | | 2-Chlorotoluene | ND | 1.0 |
| | | 4-Chlorotoluene | ND | 1.0 |
| | | 1,3,5-Trimethylbenzene | ND | 1.0 |
| | | tert-Butylbenzene | ND | 1.0 |
| | | 1,2,4-Trimethylbenzene | ND | 1.0 |
| | | sec-Butylbenzene | ND | 1.0 |



Volatile Hydrocarbons by GC/MS

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|----------------------|---------------|--------------------------------|----------------------|------------|
| 6011223-03 | MW-3 | 1,3-Dichlorobenzene | ND | 1.0 |
| | | 1,4-Dichlorobenzene | ND | 1.0 |
| | | 1,2-Dichlorobenzene | ND | 1.0 |
| | | p-Isopropyltoluene | ND | 1.0 |
| | | n-Butylbenzene | ND | 1.0 |
| | | 1,2-Dibromo-3-chloropropane | ND | 1.0 |
| | | 1,2,4-Trichlorobenzene | ND | 1.0 |
| | | Naphthalene | ND | 1.0 |
| | | Hexachlorobutadiene | ND | 1.0 |
| | | 1,2,3-Trichlorobenzene | ND | 1.0 |
| | | Tertiary Butyl Alcohol (TBA) | ND | 12 |
| | | Methyl tert-Butyl Ether (MTBE) | ND | 1.0 |
| | | Di-isopropyl Ether (DIPE) | ND | 1.0 |
| | | Ethyl tert-Butyl Ether (ETBE) | ND | 1.0 |
| | | Tert-Amyl Methyl Ether (TAME) | ND | 1.0 |
| Surrogates | Result (µg/L) | % Recovery | Acceptance Range (%) | |
| Dibromofluoromethane | 22.1 | 110 | 70-130 | |
| Toluene-d8 | 21.9 | 110 | 70-130 | |
| 4-Bromofluorobenzene | 19.7 | 99 | 70-130 | |

| | | |
|-------------------------|-------------------------|-------------------|
| Date Sampled: 01/12/16 | Date Analyzed: 01/15/16 | QC Batch: B015360 |
| Date Received: 01/12/16 | Method: EPA 8260B | |

TPH Gasoline

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-----------|---------------|---------------|------------|
| 6011223-01 | MW-1 | Gasoline | ND | 50 |

| | | |
|-------------------------|-------------------------|-------------------|
| Date Sampled: 01/12/16 | Date Analyzed: 01/15/16 | QC Batch: B015355 |
| Date Received: 01/12/16 | Method: EPA 8015B | |



TPH Gasoline

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-------------|---------------|---------------|------------|
| 6011223-02 | MW-2 | Gasoline | ND | 50 |

| | | | | |
|----------------|----------|----------------|-----------|-------------------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/15/16 | QC Batch: B015355 |
| Date Received: | 01/12/16 | Method: | EPA 8015B | |

TPH Gasoline

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-------------|---------------|---------------|------------|
| 6011223-03 | MW-3 | Gasoline | ND | 50 |

| | | | | |
|----------------|----------|----------------|-----------|-------------------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/15/16 | QC Batch: B015355 |
| Date Received: | 01/12/16 | Method: | EPA 8015B | |

TPH Diesel & Motor Oil

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-------------|---------------|---------------|------------|
| 6011223-01 | MW-1 | Diesel | ND | 50 |
| | | Motor Oil | ND | 200 |

| | | | | |
|----------------|----------|----------------|-----------|-------------------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/14/16 | QC Batch: B015337 |
| Date Received: | 01/12/16 | Method: | EPA 8015B | |

TPH Diesel & Motor Oil

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-------------|---------------|---------------|------------|
| 6011223-02 | MW-2 | Diesel | ND | 50 |
| | | Motor Oil | ND | 200 |

| | | | | |
|----------------|----------|----------------|-----------|-------------------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/14/16 | QC Batch: B015337 |
| Date Received: | 01/12/16 | Method: | EPA 8015B | |



TPH Diesel & Motor Oil

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-----------|---------------|---------------|------------|
| 6011223-03 | MW-3 | Diesel | ND | 50 |
| | | Motor Oil | ND | 200 |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/14/16 | QC Batch: | B015337 |
| Date Received: | 01/12/16 | Method: | EPA 8015B | | |



Semi-Volatile Hydrocarbons by GC/MS

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-----------|-----------------------------|---------------|------------|
| 6011223-01 | MW-1 | Phenol | ND | 5.0 |
| | | Bis(2-chloroethyl)ether | ND | 5.0 |
| | | 2-Chlorophenol | ND | 5.0 |
| | | 1,3-Dichlorobenzene | ND | 5.0 |
| | | 1,4-Dichlorobenzene | ND | 5.0 |
| | | 1,2-Dichlorobenzene | ND | 5.0 |
| | | 2-Methylphenol | ND | 5.0 |
| | | 4-Methylphenol | ND | 5.0 |
| | | Bis(2-chloroisopropyl)ether | ND | 5.0 |
| | | N-Nitrosodi-n-propylamine | ND | 5.0 |
| | | Hexachloroethane | ND | 5.0 |
| | | Nitrobenzene | ND | 5.0 |
| | | Isophorone | ND | 5.0 |
| | | 2-Nitrophenol | ND | 5.0 |
| | | 2,4-Dimethylphenol | ND | 5.0 |
| | | Bis(2-chloroethoxy)methane | ND | 5.0 |
| | | 2,4-Dichlorophenol | ND | 5.0 |
| | | 1,2,4-Trichlorobenzene | ND | 5.0 |
| | | Naphthalene | ND | 5.0 |
| | | 4-Chloroaniline | ND | 5.0 |
| | | Hexachlorobutadiene | ND | 5.0 |
| | | 4-Chloro-3-methylphenol | ND | 5.0 |
| | | 1-Methylnaphthalene | ND | 5.0 |
| | | 2-Methylnaphthalene | ND | 5.0 |
| | | Hexachlorocyclopentadiene | ND | 5.0 |
| | | 2,4,6-Trichlorophenol | ND | 5.0 |
| | | 2,4,5-Trichlorophenol | ND | 5.0 |
| | | 2-Chloronaphthalene | ND | 5.0 |
| | | 2-Nitroaniline | ND | 5.0 |
| | | 1,4-Dinitrobenzene | ND | 5.0 |
| | | Dimethyl phthalate | ND | 5.0 |
| | | 1,3-Dinitrobenzene | ND | 5.0 |
| | | 2,6-Dinitrotoluene | ND | 5.0 |
| | | Acenaphthylene | ND | 5.0 |
| | | 1,2-Dinitrobenzene | ND | 5.0 |
| | | 3-Nitroaniline | ND | 5.0 |
| | | Acenaphthene | ND | 5.0 |
| | | 2,4-Dinitrophenol | ND | 5.0 |
| | | 2,4-Dinitrotoluene | ND | 5.0 |
| | | 4-Nitrophenol | ND | 5.0 |
| | | Dibenzofuran | ND | 5.0 |
| | | Diethyl phthalate | ND | 5.0 |
| | | Fluorene | ND | 5.0 |
| | | 4-Chlorophenyl phenyl ether | ND | 5.0 |
| | | 4-Nitroaniline | ND | 5.0 |
| | | 4,6-Dinitro-2-methylphenol | ND | 5.0 |
| | | Azobenzene | ND | 5.0 |
| | | 4-Bromophenyl phenyl ether | ND | 5.0 |
| | | Hexachlorobenzene | ND | 5.0 |



Semi-Volatile Hydrocarbons by GC/MS

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) | | |
|------------------|-----------|------------------------------|---------------|-------------------|----------------------|--|
| 6011223-01 | MW-1 | Pentachlorophenol | ND | 5.0 | | |
| | | Phenanthrene | ND | 5.0 | | |
| | | Anthracene | ND | 5.0 | | |
| | | Carbazole | ND | 5.0 | | |
| | | Di-n-butyl phthalate | ND | 5.0 | | |
| | | Fluoranthene | ND | 5.0 | | |
| | | Pyrene | ND | 5.0 | | |
| | | Butyl benzyl phthalate | ND | 5.0 | | |
| | | Benzo (a) anthracene | ND | 5.0 | | |
| | | Chrysene | ND | 5.0 | | |
| | | Bis (2-ethylhexyl) phthalate | ND | 5.0 | | |
| | | Di-n-octyl phthalate | ND | 5.0 | | |
| | | Benzo (b) fluoranthene | ND | 5.0 | | |
| | | Benzo (k) fluoranthene | ND | 5.0 | | |
| | | Benzo (a) pyrene | ND | 5.0 | | |
| | | Indeno (1,2,3-cd) pyrene | ND | 5.0 | | |
| | | Dibenz (a,h) anthracene | ND | 5.0 | | |
| | | Benzo (g,h,i) perylene | ND | 5.0 | | |
| | | Surrogates | Result (µg/L) | % Recovery | Acceptance Range (%) | |
| | | 2-Fluorophenol | 141 | 68 | 5-150 | |
| Phenol-d6 | 82.2 | 39 | 5-150 | | | |
| Nitrobenzene-d5 | 139 | 133 | 5-150 | | | |
| 2-Fluorobiphenyl | 28.4 | 27 | 5-150 | | | |
| Terphenyl-d14 | 115 | 111 | 5-150 | | | |
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/29/16 | QC Batch: B015421 | | |
| Date Received: | 01/12/16 | Method: | EPA 8270C | | | |



Semi-Volatile Hydrocarbons by GC/MS

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-----------|-----------------------------|---------------|------------|
| 6011223-02 | MW-2 | Phenol | ND | 5.0 |
| | | Bis(2-chloroethyl)ether | ND | 5.0 |
| | | 2-Chlorophenol | ND | 5.0 |
| | | 1,3-Dichlorobenzene | ND | 5.0 |
| | | 1,4-Dichlorobenzene | ND | 5.0 |
| | | 1,2-Dichlorobenzene | ND | 5.0 |
| | | 2-Methylphenol | ND | 5.0 |
| | | 4-Methylphenol | ND | 5.0 |
| | | Bis(2-chloroisopropyl)ether | ND | 5.0 |
| | | N-Nitrosodi-n-propylamine | ND | 5.0 |
| | | Hexachloroethane | ND | 5.0 |
| | | Nitrobenzene | ND | 5.0 |
| | | Isophorone | ND | 5.0 |
| | | 2-Nitrophenol | ND | 5.0 |
| | | 2,4-Dimethylphenol | ND | 5.0 |
| | | Bis(2-chloroethoxy)methane | ND | 5.0 |
| | | 2,4-Dichlorophenol | ND | 5.0 |
| | | 1,2,4-Trichlorobenzene | ND | 5.0 |
| | | Naphthalene | ND | 5.0 |
| | | 4-Chloroaniline | ND | 5.0 |
| | | Hexachlorobutadiene | ND | 5.0 |
| | | 4-Chloro-3-methylphenol | ND | 5.0 |
| | | 1-Methylnaphthalene | ND | 5.0 |
| | | 2-Methylnaphthalene | ND | 5.0 |
| | | Hexachlorocyclopentadiene | ND | 5.0 |
| | | 2,4,6-Trichlorophenol | ND | 5.0 |
| | | 2,4,5-Trichlorophenol | ND | 5.0 |
| | | 2-Chloronaphthalene | ND | 5.0 |
| | | 2-Nitroaniline | ND | 5.0 |
| | | 1,4-Dinitrobenzene | ND | 5.0 |
| | | Dimethyl phthalate | ND | 5.0 |
| | | 1,3-Dinitrobenzene | ND | 5.0 |
| | | 2,6-Dinitrotoluene | ND | 5.0 |
| | | Acenaphthylene | ND | 5.0 |
| | | 1,2-Dinitrobenzene | ND | 5.0 |
| | | 3-Nitroaniline | ND | 5.0 |
| | | Acenaphthene | ND | 5.0 |
| | | 2,4-Dinitrophenol | ND | 5.0 |
| | | 2,4-Dinitrotoluene | ND | 5.0 |
| | | 4-Nitrophenol | ND | 5.0 |
| | | Dibenzofuran | ND | 5.0 |
| | | Diethyl phthalate | ND | 5.0 |
| | | Fluorene | ND | 5.0 |
| | | 4-Chlorophenyl phenyl ether | ND | 5.0 |
| | | 4-Nitroaniline | ND | 5.0 |
| | | 4,6-Dinitro-2-methylphenol | ND | 5.0 |
| | | Azobenzene | ND | 5.0 |
| | | 4-Bromophenyl phenyl ether | ND | 5.0 |
| | | Hexachlorobenzene | ND | 5.0 |



Semi-Volatile Hydrocarbons by GC/MS

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------------|---------------|------------------------------|----------------------|-------------------|
| 6011223-02 | MW-2 | Pentachlorophenol | ND | 5.0 |
| | | Phenanthrene | ND | 5.0 |
| | | Anthracene | ND | 5.0 |
| | | Carbazole | ND | 5.0 |
| | | Di-n-butyl phthalate | ND | 5.0 |
| | | Fluoranthene | ND | 5.0 |
| | | Pyrene | ND | 5.0 |
| | | Butyl benzyl phthalate | ND | 5.0 |
| | | Benzo (a) anthracene | ND | 5.0 |
| | | Chrysene | ND | 5.0 |
| | | Bis (2-ethylhexyl) phthalate | ND | 5.0 |
| | | Di-n-octyl phthalate | ND | 5.0 |
| | | Benzo (b) fluoranthene | ND | 5.0 |
| | | Benzo (k) fluoranthene | ND | 5.0 |
| | | Benzo (a) pyrene | ND | 5.0 |
| | | Indeno (1,2,3-cd) pyrene | ND | 5.0 |
| | | Dibenz (a,h) anthracene | ND | 5.0 |
| | | Benzo (g,h,i) perylene | ND | 5.0 |
| Surrogates | Result (µg/L) | % Recovery | Acceptance Range (%) | |
| 2-Fluorophenol | 156 | 76 | 5-150 | |
| Phenol-d6 | 80.0 | 39 | 5-150 | |
| Nitrobenzene-d5 | 139 | 136 | 5-150 | |
| 2-Fluorobiphenyl | 29.0 | 28 | 5-150 | |
| Terphenyl-d14 | 101 | 99 | 5-150 | |
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/29/16 | QC Batch: B015421 |
| Date Received: | 01/12/16 | Method: | EPA 8270C | |



Semi-Volatile Hydrocarbons by GC/MS

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-----------|-----------------------------|---------------|------------|
| 6011223-03 | MW-3 | Phenol | ND | 5.0 |
| | | Bis(2-chloroethyl)ether | ND | 5.0 |
| | | 2-Chlorophenol | ND | 5.0 |
| | | 1,3-Dichlorobenzene | ND | 5.0 |
| | | 1,4-Dichlorobenzene | ND | 5.0 |
| | | 1,2-Dichlorobenzene | ND | 5.0 |
| | | 2-Methylphenol | ND | 5.0 |
| | | 4-Methylphenol | ND | 5.0 |
| | | Bis(2-chloroisopropyl)ether | ND | 5.0 |
| | | N-Nitrosodi-n-propylamine | ND | 5.0 |
| | | Hexachloroethane | ND | 5.0 |
| | | Nitrobenzene | ND | 5.0 |
| | | Isophorone | ND | 5.0 |
| | | 2-Nitrophenol | ND | 5.0 |
| | | 2,4-Dimethylphenol | ND | 5.0 |
| | | Bis(2-chloroethoxy)methane | ND | 5.0 |
| | | 2,4-Dichlorophenol | ND | 5.0 |
| | | 1,2,4-Trichlorobenzene | ND | 5.0 |
| | | Naphthalene | ND | 5.0 |
| | | 4-Chloroaniline | ND | 5.0 |
| | | Hexachlorobutadiene | ND | 5.0 |
| | | 4-Chloro-3-methylphenol | ND | 5.0 |
| | | 1-Methylnaphthalene | ND | 5.0 |
| | | 2-Methylnaphthalene | ND | 5.0 |
| | | Hexachlorocyclopentadiene | ND | 5.0 |
| | | 2,4,6-Trichlorophenol | ND | 5.0 |
| | | 2,4,5-Trichlorophenol | ND | 5.0 |
| | | 2-Chloronaphthalene | ND | 5.0 |
| | | 2-Nitroaniline | ND | 5.0 |
| | | 1,4-Dinitrobenzene | ND | 5.0 |
| | | Dimethyl phthalate | ND | 5.0 |
| | | 1,3-Dinitrobenzene | ND | 5.0 |
| | | 2,6-Dinitrotoluene | ND | 5.0 |
| | | Acenaphthylene | ND | 5.0 |
| | | 1,2-Dinitrobenzene | ND | 5.0 |
| | | 3-Nitroaniline | ND | 5.0 |
| | | Acenaphthene | ND | 5.0 |
| | | 2,4-Dinitrophenol | ND | 5.0 |
| | | 2,4-Dinitrotoluene | ND | 5.0 |
| | | 4-Nitrophenol | ND | 5.0 |
| | | Dibenzofuran | ND | 5.0 |
| | | Diethyl phthalate | ND | 5.0 |
| | | Fluorene | ND | 5.0 |
| | | 4-Chlorophenyl phenyl ether | ND | 5.0 |
| | | 4-Nitroaniline | ND | 5.0 |
| | | 4,6-Dinitro-2-methylphenol | ND | 5.0 |
| | | Azobenzene | ND | 5.0 |
| | | 4-Bromophenyl phenyl ether | ND | 5.0 |
| | | Hexachlorobenzene | ND | 5.0 |



Semi-Volatile Hydrocarbons by GC/MS

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-----------|------------------------------|---------------|------------|
| 6011223-03 | MW-3 | Pentachlorophenol | ND | 5.0 |
| | | Phenanthrene | ND | 5.0 |
| | | Anthracene | ND | 5.0 |
| | | Carbazole | ND | 5.0 |
| | | Di-n-butyl phthalate | ND | 5.0 |
| | | Fluoranthene | ND | 5.0 |
| | | Pyrene | ND | 5.0 |
| | | Butyl benzyl phthalate | ND | 5.0 |
| | | Benzo (a) anthracene | ND | 5.0 |
| | | Chrysene | ND | 5.0 |
| | | Bis (2-ethylhexyl) phthalate | ND | 5.0 |
| | | Di-n-octyl phthalate | ND | 5.0 |
| | | Benzo (b) fluoranthene | ND | 5.0 |
| | | Benzo (k) fluoranthene | ND | 5.0 |
| | | Benzo (a) pyrene | ND | 5.0 |
| | | Indeno (1,2,3-cd) pyrene | ND | 5.0 |
| | | Dibenz (a,h) anthracene | ND | 5.0 |
| | | Benzo (g,h,i) perylene | ND | 5.0 |

| Surrogates | Result (µg/L) | % Recovery | Acceptance Range (%) |
|------------------|---------------|------------|----------------------|
| 2-Fluorophenol | 152 | 72 | 5-150 |
| Phenol-d6 | 76.6 | 36 | 5-150 |
| Nitrobenzene-d5 | 145 | 138 | 5-150 |
| 2-Fluorobiphenyl | 28.3 | 27 | 5-150 |
| Terphenyl-d14 | 105 | 100 | 5-150 |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/29/16 | QC Batch: | B015421 |
| Date Received: | 01/12/16 | Method: | EPA 8270C | | |

Metals

| Lab# | Sample ID | Compound Name | Result (mg/L) | RDL (mg/L) |
|------------|-----------|----------------|---------------|------------|
| 6011223-01 | MW-1 | Boron (B) | 7.4 | 0.50 |
| | | Calcium (Ca) | 120 | 12 |
| | | Magnesium (Mg) | 49 | 5.0 |
| | | Potassium (K) | 3.2 | 0.10 |
| | | Sodium (Na) | 290 | 5.0 |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/13/16 | QC Batch: | B015352 |
| Date Received: | 01/12/16 | Method: | EPA 6010B | | |



Metals

| Lab# | Sample ID | Compound Name | Result (mg/L) | RDL (mg/L) |
|------------|-----------|----------------|---------------|------------|
| 6011223-02 | MW-2 | Boron (B) | 7.9 | 0.50 |
| | | Calcium (Ca) | 130 | 12 |
| | | Magnesium (Mg) | 52 | 5.0 |
| | | Potassium (K) | 3.2 | 0.10 |
| | | Sodium (Na) | 300 | 5.0 |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/13/16 | QC Batch: | B015352 |
| Date Received: | 01/12/16 | Method: | EPA 6010B | | |

Metals

| Lab# | Sample ID | Compound Name | Result (mg/L) | RDL (mg/L) |
|------------|-----------|----------------|---------------|------------|
| 6011223-03 | MW-3 | Boron (B) | 7.7 | 0.50 |
| | | Calcium (Ca) | 130 | 12 |
| | | Magnesium (Mg) | 55 | 5.0 |
| | | Potassium (K) | 3.2 | 0.10 |
| | | Sodium (Na) | 290 | 5.0 |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/13/16 | QC Batch: | B015352 |
| Date Received: | 01/12/16 | Method: | EPA 6010B | | |



CAM Metals

| Lab# | Sample ID | Compound Name | Result (mg/L) | RDL (mg/L) |
|------------|-----------|-----------------|---------------|------------|
| 6011223-01 | MW-1 | Antimony (Sb) | ND | 0.050 |
| | | Arsenic (As) | ND | 0.020 |
| | | Barium (Ba) | ND | 0.050 |
| | | Beryllium (Be) | ND | 0.010 |
| | | Cadmium (Cd) | ND | 0.010 |
| | | Chromium (Cr) | ND | 0.010 |
| | | Cobalt (Co) | ND | 0.050 |
| | | Copper (Cu) | ND | 0.050 |
| | | Lead (Pb) | ND | 0.050 |
| | | Molybdenum (Mo) | ND | 0.020 |
| | | Nickel (Ni) | ND | 0.050 |
| | | Selenium (Se) | ND | 0.050 |
| | | Silver (Ag) | ND | 0.010 |
| | | Thallium (Tl) | ND | 0.050 |
| | | Vanadium (V) | ND | 0.020 |
| | | Zinc (Zn) | ND | 0.050 |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/13/16 | QC Batch: | B015352 |
| Date Received: | 01/12/16 | Method: | EPA 6010B | | |



CAM Metals

| Lab# | Sample ID | Compound Name | Result (mg/L) | RDL (mg/L) |
|------------|-----------|-----------------|---------------|------------|
| 6011223-02 | MW-2 | Antimony (Sb) | ND | 0.050 |
| | | Arsenic (As) | ND | 0.020 |
| | | Barium (Ba) | ND | 0.050 |
| | | Beryllium (Be) | ND | 0.010 |
| | | Cadmium (Cd) | ND | 0.010 |
| | | Chromium (Cr) | ND | 0.010 |
| | | Cobalt (Co) | ND | 0.050 |
| | | Copper (Cu) | ND | 0.050 |
| | | Lead (Pb) | ND | 0.050 |
| | | Molybdenum (Mo) | ND | 0.020 |
| | | Nickel (Ni) | ND | 0.050 |
| | | Selenium (Se) | ND | 0.050 |
| | | Silver (Ag) | ND | 0.010 |
| | | Thallium (Tl) | ND | 0.050 |
| | | Vanadium (V) | ND | 0.020 |
| | | Zinc (Zn) | ND | 0.050 |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/13/16 | QC Batch: | B015352 |
| Date Received: | 01/12/16 | Method: | EPA 6010B | | |



CAM Metals

| Lab# | Sample ID | Compound Name | Result (mg/L) | RDL (mg/L) |
|------------|-----------|-----------------|---------------|------------|
| 6011223-03 | MW-3 | Antimony (Sb) | ND | 0.050 |
| | | Arsenic (As) | ND | 0.020 |
| | | Barium (Ba) | ND | 0.050 |
| | | Beryllium (Be) | ND | 0.010 |
| | | Cadmium (Cd) | ND | 0.010 |
| | | Chromium (Cr) | ND | 0.010 |
| | | Cobalt (Co) | ND | 0.050 |
| | | Copper (Cu) | ND | 0.050 |
| | | Lead (Pb) | ND | 0.050 |
| | | Molybdenum (Mo) | ND | 0.020 |
| | | Nickel (Ni) | ND | 0.050 |
| | | Selenium (Se) | ND | 0.050 |
| | | Silver (Ag) | ND | 0.010 |
| | | Thallium (Tl) | ND | 0.050 |
| | | Vanadium (V) | ND | 0.020 |
| | | Zinc (Zn) | ND | 0.050 |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/13/16 | QC Batch: | B015352 |
| Date Received: | 01/12/16 | Method: | EPA 6010B | | |

Mercury

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-----------|---------------|---------------|------------|
| 6011223-01 | MW-1 | Mercury (Hg) | ND | 0.20 |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/25/16 | QC Batch: | B015394 |
| Date Received: | 01/12/16 | Method: | EPA 7470A | | |

Mercury

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-----------|---------------|---------------|------------|
| 6011223-02 | MW-2 | Mercury (Hg) | ND | 0.20 |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/25/16 | QC Batch: | B015394 |
| Date Received: | 01/12/16 | Method: | EPA 7470A | | |



Mercury

| Lab# | Sample ID | Compound Name | Result (µg/L) | RDL (µg/L) |
|------------|-----------|---------------|---------------|------------|
| 6011223-03 | MW-3 | Mercury (Hg) | ND | 0.20 |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/25/16 | QC Batch: | B015394 |
| Date Received: | 01/12/16 | Method: | EPA 7470A | | |

Conductivity

| Lab# | Sample ID | Compound Name | Result (µS/cm) | RDL (µS/cm) |
|------------|-----------|---------------|----------------|-------------|
| 6011223-01 | MW-1 | Conductivity | 2300 | 2.5 |

| | | | | | |
|----------------|----------|----------------|----------------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/13/16 | QC Batch: | B015348 |
| Date Received: | 01/12/16 | Method: | SM 2510 B-2011 | | |

Conductivity

| Lab# | Sample ID | Compound Name | Result (µS/cm) | RDL (µS/cm) |
|------------|-----------|---------------|----------------|-------------|
| 6011223-02 | MW-2 | Conductivity | 2400 | 2.5 |

| | | | | | |
|----------------|----------|----------------|----------------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/13/16 | QC Batch: | B015348 |
| Date Received: | 01/12/16 | Method: | SM 2510 B-2011 | | |

Conductivity

| Lab# | Sample ID | Compound Name | Result (µS/cm) | RDL (µS/cm) |
|------------|-----------|---------------|----------------|-------------|
| 6011223-03 | MW-3 | Conductivity | 2500 | 2.5 |

| | | | | | |
|----------------|----------|----------------|----------------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/13/16 | QC Batch: | B015348 |
| Date Received: | 01/12/16 | Method: | SM 2510 B-2011 | | |



Alkalinity

| Lab# | Sample ID | Compound Name | Result (mg CaCO3/L) | RDL (mg CaCO3/L) |
|------------|-----------|------------------------|---------------------|------------------|
| 6011223-01 | MW-1 | Total Alkalinity | 290 | 5.0 |
| | | Bicarbonate Alkalinity | 290 | 5.0 |
| | | Carbonate Alkalinity | ND | 5.0 |
| | | Hydroxide Alkalinity | ND | 5.0 |

| | | | | |
|----------------|----------|----------------|----------------|-------------------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/13/16 | QC Batch: B015373 |
| Date Received: | 01/12/16 | Method: | SM 2320 B-2011 | |

Alkalinity

| Lab# | Sample ID | Compound Name | Result (mg CaCO3/L) | RDL (mg CaCO3/L) |
|------------|-----------|------------------------|---------------------|------------------|
| 6011223-02 | MW-2 | Total Alkalinity | 300 | 5.0 |
| | | Bicarbonate Alkalinity | 300 | 5.0 |
| | | Carbonate Alkalinity | ND | 5.0 |
| | | Hydroxide Alkalinity | ND | 5.0 |

| | | | | |
|----------------|----------|----------------|----------------|-------------------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/13/16 | QC Batch: B015373 |
| Date Received: | 01/12/16 | Method: | SM 2320 B-2011 | |

Alkalinity

| Lab# | Sample ID | Compound Name | Result (mg CaCO3/L) | RDL (mg CaCO3/L) |
|------------|-----------|------------------------|---------------------|------------------|
| 6011223-03 | MW-3 | Total Alkalinity | 300 | 5.0 |
| | | Bicarbonate Alkalinity | 300 | 5.0 |
| | | Carbonate Alkalinity | ND | 5.0 |
| | | Hydroxide Alkalinity | ND | 5.0 |

| | | | | |
|----------------|----------|----------------|----------------|-------------------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/13/16 | QC Batch: B015373 |
| Date Received: | 01/12/16 | Method: | SM 2320 B-2011 | |



Anions

| Lab# | Sample ID | Compound Name | Result (mg/L) | RDL (mg/L) |
|------------|-----------|----------------|---------------|------------|
| 6011223-01 | MW-1 | Chloride | 380 | 8.0 |
| | | Nitrate as N | 10 | 6.0 |
| | | Sulfate as SO4 | 360 | 20 |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/14/16 | QC Batch: | B015372 |
| Date Received: | 01/12/16 | Method: | EPA 300.0 | | |

Anions

| Lab# | Sample ID | Compound Name | Result (mg/L) | RDL (mg/L) |
|------------|-----------|----------------|---------------|------------|
| 6011223-02 | MW-2 | Chloride | 390 | 8.0 |
| | | Nitrate as N | 10 | 6.0 |
| | | Sulfate as SO4 | 390 | 20 |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/14/16 | QC Batch: | B015372 |
| Date Received: | 01/12/16 | Method: | EPA 300.0 | | |

Anions

| Lab# | Sample ID | Compound Name | Result (mg/L) | RDL (mg/L) |
|------------|-----------|----------------|---------------|------------|
| 6011223-03 | MW-3 | Chloride | 380 | 8.0 |
| | | Nitrate as N | 6.4 | 1.5 |
| | | Sulfate as SO4 | 460 | 20 |

| | | | | | |
|----------------|----------|----------------|-----------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/14/16 | QC Batch: | B015372 |
| Date Received: | 01/12/16 | Method: | EPA 300.0 | | |

Total Dissolved Solids

| Lab# | Sample ID | Compound Name | Result (mg/L) | RDL (mg/L) |
|------------|-----------|------------------------|---------------|------------|
| 6011223-01 | MW-1 | Total Dissolved Solids | 1500 | 10 |

| | | | | | |
|----------------|----------|----------------|----------------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/15/16 | QC Batch: | B015375 |
| Date Received: | 01/12/16 | Method: | SM 2540 C-2011 | | |



Total Dissolved Solids

| Lab# | Sample ID | Compound Name | Result (mg/L) | RDL (mg/L) |
|------------|-----------|------------------------|---------------|------------|
| 6011223-02 | MW-2 | Total Dissolved Solids | 1500 | 10 |

| | | | | | |
|----------------|----------|----------------|----------------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/15/16 | QC Batch: | B015375 |
| Date Received: | 01/12/16 | Method: | SM 2540 C-2011 | | |

Total Dissolved Solids

| Lab# | Sample ID | Compound Name | Result (mg/L) | RDL (mg/L) |
|------------|-----------|------------------------|---------------|------------|
| 6011223-03 | MW-3 | Total Dissolved Solids | 1500 | 10 |

| | | | | | |
|----------------|----------|----------------|----------------|-----------|---------|
| Date Sampled: | 01/12/16 | Date Analyzed: | 01/15/16 | QC Batch: | B015375 |
| Date Received: | 01/12/16 | Method: | SM 2540 C-2011 | | |



Quality Assurance Report

Volatile Hydrocarbons by GC/MS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch B015360 - EPA 5030 GC/MS

Blank (B015360-BLK1)

Prepared & Analyzed: 01/07/16

| | | | |
|-----------------------------------|----|-----|------|
| Dichlorodifluoromethane (F-12) | ND | 1.0 | µg/L |
| Chloromethane | ND | 1.0 | µg/L |
| Vinyl chloride | ND | 1.0 | µg/L |
| Chloroethane (CE) | ND | 1.0 | µg/L |
| Bromomethane | ND | 1.0 | µg/L |
| Trichlorofluoromethane (F-11) | ND | 1.0 | µg/L |
| Trichlorotrifluoroethane (F-113) | ND | 1.0 | µg/L |
| 1,1-Dichloroethene (1,1-DCE) | ND | 1.0 | µg/L |
| Methylene chloride | ND | 1.0 | µg/L |
| trans-1,2-Dichloroethene | ND | 1.0 | µg/L |
| 1,1-Dichloroethane (1,1-DCA) | ND | 1.0 | µg/L |
| cis-1,2-Dichloroethene (c1,2-DCE) | ND | 1.0 | µg/L |
| 2,2-Dichloropropane | ND | 1.0 | µg/L |
| Chloroform (THM1) | ND | 1.0 | µg/L |
| Bromochloromethane | ND | 1.0 | µg/L |
| 1,1,1-Trichloroethane (TCA) | ND | 1.0 | µg/L |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | µg/L |
| 1,1-Dichloropropene | ND | 1.0 | µg/L |
| Carbon tetrachloride | ND | 1.0 | µg/L |
| Benzene | ND | 1.0 | µg/L |
| Trichloroethene (TCE) | ND | 1.0 | µg/L |
| 1,2-Dichloropropane (DCP) | ND | 1.0 | µg/L |
| Dibromomethane | ND | 1.0 | µg/L |
| Bromodichloromethane (THM2) | ND | 1.0 | µg/L |
| cis-1,3-Dichloropropene | ND | 1.0 | µg/L |
| Toluene | ND | 1.0 | µg/L |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L |
| 1,3-Dichloropropane | ND | 1.0 | µg/L |
| Dibromochloromethane (THM3) | ND | 1.0 | µg/L |
| Tetrachloroethene (PCE) | ND | 1.0 | µg/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L |
| Chlorobenzene | ND | 1.0 | µg/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L |
| Ethylbenzene | ND | 1.0 | µg/L |
| m,p-Xylene | ND | 1.0 | µg/L |
| Styrene | ND | 1.0 | µg/L |
| o-Xylene | ND | 1.0 | µg/L |
| Bromoform (THM4) | ND | 1.0 | µg/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | µg/L |
| Isopropylbenzene | ND | 1.0 | µg/L |
| 1,2,3-Trichloropropane | ND | 1.0 | µg/L |



Volatile Hydrocarbons by GC/MS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch B015360 - EPA 5030 GC/MS

Blank (B015360-BLK1)

Prepared & Analyzed: 01/07/16

| | | | | | | | | | |
|--------------------------------|----|-----|------|--|--|--|--|--|--|
| Bromobenzene | ND | 1.0 | µg/L | | | | | | |
| n-Propyl Benzene | ND | 1.0 | µg/L | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | µg/L | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | µg/L | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | µg/L | | | | | | |
| tert-Butylbenzene | ND | 1.0 | µg/L | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L | | | | | | |
| sec-Butylbenzene | ND | 1.0 | µg/L | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | |
| p-Isopropyltoluene | ND | 1.0 | µg/L | | | | | | |
| n-Butylbenzene | ND | 1.0 | µg/L | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | µg/L | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | | | | | | |
| Naphthalene | ND | 1.0 | µg/L | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | µg/L | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | µg/L | | | | | | |
| Tertiary Butyl Alcohol (TBA) | ND | 12 | µg/L | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 1.0 | µg/L | | | | | | |
| Di-isopropyl Ether (DIPE) | ND | 1.0 | µg/L | | | | | | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 1.0 | µg/L | | | | | | |
| Tert-Amyl Methyl Ether (TAME) | ND | 1.0 | µg/L | | | | | | |

| | | | | | |
|--|------|------|------|-----|--------|
| <i>Surrogate: Dibromofluoromethane</i> | 20.4 | µg/L | 20.0 | 102 | 70-130 |
| <i>Surrogate: Toluene-d8</i> | 19.3 | µg/L | 20.0 | 97 | 70-130 |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 20.1 | µg/L | 20.0 | 100 | 70-130 |

Matrix Spike (B015360-MS1)

Source: 6010711-01

Prepared & Analyzed: 01/07/16

| | | | | | | | |
|------------------------------|------|-----|------|------|----|-----|--------|
| 1,1-Dichloroethene (1,1-DCE) | 25.1 | 1.0 | µg/L | 25.0 | ND | 100 | 70-130 |
| Benzene | 27.9 | 1.0 | µg/L | 25.0 | ND | 112 | 70-130 |
| Trichloroethene (TCE) | 25.8 | 1.0 | µg/L | 25.0 | ND | 103 | 70-130 |
| Toluene | 29.1 | 1.0 | µg/L | 25.0 | ND | 117 | 70-130 |
| Chlorobenzene | 24.5 | 1.0 | µg/L | 25.0 | ND | 98 | 70-130 |

| | | | | | |
|--|------|------|------|-----|--------|
| <i>Surrogate: Dibromofluoromethane</i> | 19.7 | µg/L | 20.0 | 99 | 70-130 |
| <i>Surrogate: Toluene-d8</i> | 19.3 | µg/L | 20.0 | 97 | 70-130 |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 20.7 | µg/L | 20.0 | 103 | 70-130 |



Volatile Hydrocarbons by GC/MS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|-------------|---------------------------|-------------|----------------|--|------------|----------------|------|--------------|-------|
| Batch B015360 - EPA 5030 GC/MS | | | | | | | | | | |
| Matrix Spike Dup (B015360-MSD1) | | Source: 6010711-01 | | | Prepared & Analyzed: 01/07/16 | | | | | |
| 1,1-Dichloroethene (1,1-DCE) | 25.0 | 1.0 | µg/L | 25.0 | ND | 100 | 70-130 | 0.04 | 20 | |
| Benzene | 27.3 | 1.0 | µg/L | 25.0 | ND | 109 | 70-130 | 2 | 20 | |
| Trichloroethene (TCE) | 25.1 | 1.0 | µg/L | 25.0 | ND | 101 | 70-130 | 3 | 20 | |
| Toluene | 28.7 | 1.0 | µg/L | 25.0 | ND | 115 | 70-130 | 1 | 20 | |
| Chlorobenzene | 24.0 | 1.0 | µg/L | 25.0 | ND | 96 | 70-130 | 2 | 20 | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>20.2</i> | | <i>µg/L</i> | <i>20.0</i> | | <i>101</i> | <i>70-130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>19.0</i> | | <i>µg/L</i> | <i>20.0</i> | | <i>95</i> | <i>70-130</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>20.2</i> | | <i>µg/L</i> | <i>20.0</i> | | <i>101</i> | <i>70-130</i> | | | |



TPH Gasoline

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|--------------------|-------|----------------|-------------------------------|------|-------------------------------|------|--------------|-------|
| Batch B015355 - EPA 5030 GC | | | | | | | | | | |
| Blank (B015355-BLK1) | | | | | Prepared & Analyzed: 01/06/16 | | | | | |
| Gasoline | ND | 50 | µg/L | | | | | | | |
| Matrix Spike (B015355-MS1) | | | | | Source: 6010520-01 | | Prepared & Analyzed: 01/06/16 | | | |
| Benzene | 10.0 | 0.50 | µg/L | 10.0 | ND | 100 | 70-130 | | | |
| Toluene | 10.0 | 0.50 | µg/L | 10.0 | ND | 100 | 70-130 | | | |
| Ethylbenzene | 9.84 | 0.50 | µg/L | 10.0 | ND | 98 | 70-130 | | | |
| Xylenes | 30.2 | 1.5 | µg/L | 30.0 | ND | 101 | 70-130 | | | |
| Matrix Spike Dup (B015355-MSD1) | | | | | Source: 6010520-01 | | Prepared & Analyzed: 01/06/16 | | | |
| Benzene | 9.85 | 0.50 | µg/L | 10.0 | ND | 98 | 70-130 | 2 | 20 | |
| Toluene | 9.98 | 0.50 | µg/L | 10.0 | ND | 100 | 70-130 | 0.5 | 20 | |
| Ethylbenzene | 9.67 | 0.50 | µg/L | 10.0 | ND | 97 | 70-130 | 2 | 20 | |
| Xylenes | 30.2 | 1.5 | µg/L | 30.0 | ND | 101 | 70-130 | 0.05 | 20 | |



TPH Diesel & Motor Oil

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------|--------|-----------------|-------|---------------------------------------|---------------|------|-------------|-----|-----------|-------|
| Batch B015337 - EPA 3510C | | | | | | | | | | |
| Blank (B015337-BLK1) | | | | Prepared: 12/28/15 Analyzed: 12/29/15 | | | | | | |
| Diesel | ND | 50 | µg/L | | | | | | | |
| Motor Oil | ND | 200 | µg/L | | | | | | | |
| LCS (B015337-BS1) | | | | Prepared: 12/28/15 Analyzed: 12/29/15 | | | | | | |
| Diesel | 2340 | 50 | µg/L | 2520 | | 93 | 65-135 | | | |
| LCS Dup (B015337-BSD1) | | | | Prepared: 12/28/15 Analyzed: 12/29/15 | | | | | | |
| Diesel | 2410 | 50 | µg/L | 2520 | | 96 | 65-135 | 3 | 30 | |



Semi-Volatile Hydrocarbons by GC/MS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch B015421 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (B015421-BLK1) | | | | | | | | | | |
| Prepared: 01/12/16 Analyzed: 01/29/16 | | | | | | | | | | |
| Phenol | ND | 5.0 | µg/L | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 5.0 | µg/L | | | | | | | |
| 2-Chlorophenol | ND | 5.0 | µg/L | | | | | | | |
| 1,3-Dichlorobenzene | ND | 5.0 | µg/L | | | | | | | |
| 1,4-Dichlorobenzene | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dichlorobenzene | ND | 5.0 | µg/L | | | | | | | |
| 2-Methylphenol | ND | 5.0 | µg/L | | | | | | | |
| 4-Methylphenol | ND | 5.0 | µg/L | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | µg/L | | | | | | | |
| N-Nitrosodi-n-propylamine | ND | 5.0 | µg/L | | | | | | | |
| Hexachloroethane | ND | 5.0 | µg/L | | | | | | | |
| Nitrobenzene | ND | 5.0 | µg/L | | | | | | | |
| Isophorone | ND | 5.0 | µg/L | | | | | | | |
| 2-Nitrophenol | ND | 5.0 | µg/L | | | | | | | |
| 2,4-Dimethylphenol | ND | 5.0 | µg/L | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 5.0 | µg/L | | | | | | | |
| 2,4-Dichlorophenol | ND | 5.0 | µg/L | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 5.0 | µg/L | | | | | | | |
| Naphthalene | ND | 5.0 | µg/L | | | | | | | |
| 4-Chloroaniline | ND | 5.0 | µg/L | | | | | | | |
| Hexachlorobutadiene | ND | 5.0 | µg/L | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 5.0 | µg/L | | | | | | | |
| 1-Methylnaphthalene | ND | 5.0 | µg/L | | | | | | | |
| 2-Methylnaphthalene | ND | 5.0 | µg/L | | | | | | | |
| Hexachlorocyclopentadiene | ND | 5.0 | µg/L | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 5.0 | µg/L | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 5.0 | µg/L | | | | | | | |
| 2-Chloronaphthalene | ND | 5.0 | µg/L | | | | | | | |
| 2-Nitroaniline | ND | 5.0 | µg/L | | | | | | | |
| 1,4-Dinitrobenzene | ND | 5.0 | µg/L | | | | | | | |
| Dimethyl phthalate | ND | 5.0 | µg/L | | | | | | | |
| 1,3-Dinitrobenzene | ND | 5.0 | µg/L | | | | | | | |
| 2,6-Dinitrotoluene | ND | 5.0 | µg/L | | | | | | | |
| Acenaphthylene | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dinitrobenzene | ND | 5.0 | µg/L | | | | | | | |
| 3-Nitroaniline | ND | 5.0 | µg/L | | | | | | | |
| Acenaphthene | ND | 5.0 | µg/L | | | | | | | |
| 2,4-Dinitrophenol | ND | 5.0 | µg/L | | | | | | | |
| 2,4-Dinitrotoluene | ND | 5.0 | µg/L | | | | | | | |
| 4-Nitrophenol | ND | 5.0 | µg/L | | | | | | | |
| Dibenzofuran | ND | 5.0 | µg/L | | | | | | | |
| Diethyl phthalate | ND | 5.0 | µg/L | | | | | | | |
| Fluorene | ND | 5.0 | µg/L | | | | | | | |



Semi-Volatile Hydrocarbons by GC/MS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch B015421 - * DEFAULT PREP *****

Blank (B015421-BLK1)

Prepared: 01/12/16 Analyzed: 01/29/16

| | | | | | | | | | | |
|------------------------------|----|-----|------|--|--|--|--|--|--|--|
| 4-Chlorophenyl phenyl ether | ND | 5.0 | µg/L | | | | | | | |
| 4-Nitroaniline | ND | 5.0 | µg/L | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 5.0 | µg/L | | | | | | | |
| Azobenzene | ND | 5.0 | µg/L | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 5.0 | µg/L | | | | | | | |
| Hexachlorobenzene | ND | 5.0 | µg/L | | | | | | | |
| Pentachlorophenol | ND | 5.0 | µg/L | | | | | | | |
| Phenanthrene | ND | 5.0 | µg/L | | | | | | | |
| Anthracene | ND | 5.0 | µg/L | | | | | | | |
| Carbazole | ND | 5.0 | µg/L | | | | | | | |
| Di-n-butyl phthalate | ND | 5.0 | µg/L | | | | | | | |
| Fluoranthene | ND | 5.0 | µg/L | | | | | | | |
| Pyrene | ND | 5.0 | µg/L | | | | | | | |
| Butyl benzyl phthalate | ND | 5.0 | µg/L | | | | | | | |
| Benzo (a) anthracene | ND | 5.0 | µg/L | | | | | | | |
| Chrysene | ND | 5.0 | µg/L | | | | | | | |
| Bis (2-ethylhexyl) phthalate | ND | 5.0 | µg/L | | | | | | | |
| Di-n-octyl phthalate | ND | 5.0 | µg/L | | | | | | | |
| Benzo (b) fluoranthene | ND | 5.0 | µg/L | | | | | | | |
| Benzo (k) fluoranthene | ND | 5.0 | µg/L | | | | | | | |
| Benzo (a) pyrene | ND | 5.0 | µg/L | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 5.0 | µg/L | | | | | | | |
| Dibenz (a,h) anthracene | ND | 5.0 | µg/L | | | | | | | |
| Benzo (g,h,i) perylene | ND | 5.0 | µg/L | | | | | | | |

| | | | | | |
|------------------------------------|-------------|-------------|------------|------------|--------------|
| <i>Surrogate: 2-Fluorophenol</i> | <i>149</i> | <i>µg/L</i> | <i>200</i> | <i>75</i> | <i>5-150</i> |
| <i>Surrogate: Phenol-d6</i> | <i>70.7</i> | <i>µg/L</i> | <i>200</i> | <i>35</i> | <i>5-150</i> |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>97.3</i> | <i>µg/L</i> | <i>100</i> | <i>97</i> | <i>5-150</i> |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>16.1</i> | <i>µg/L</i> | <i>100</i> | <i>16</i> | <i>5-150</i> |
| <i>Surrogate: Terphenyl-d14</i> | <i>141</i> | <i>µg/L</i> | <i>100</i> | <i>141</i> | <i>5-150</i> |



Semi-Volatile Hydrocarbons by GC/MS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch B015421 - * DEFAULT PREP *****

LCS (B015421-BS1)

Prepared: 01/12/16 Analyzed: 01/29/16

| | | | | | | | | | | |
|---------------------------|------|-----|------|------|--|----|-------|--|--|--|
| Phenol | 57.2 | 5.0 | µg/L | 100 | | 57 | 5-130 | | | |
| 2-Chlorophenol | 43.2 | 5.0 | µg/L | 100 | | 43 | 5-130 | | | |
| 1,4-Dichlorobenzene | 16.8 | 5.0 | µg/L | 50.0 | | 34 | 5-130 | | | |
| N-Nitrosodi-n-propylamine | 25.5 | 5.0 | µg/L | 50.0 | | 51 | 5-130 | | | |
| 1,2,4-Trichlorobenzene | 13.9 | 5.0 | µg/L | 50.0 | | 28 | 5-130 | | | |
| 4-Chloro-3-methylphenol | 24.8 | 5.0 | µg/L | 100 | | 25 | 5-130 | | | |
| Pentachlorophenol | 9.08 | 5.0 | µg/L | 100 | | 9 | 5-130 | | | |
| Pyrene | 40.5 | 5.0 | µg/L | 50.0 | | 81 | 5-130 | | | |

| | | | | | | | | | | |
|------------------------------------|-------------|--|-------------|------------|--|------------|--------------|--|--|--|
| <i>Surrogate: 2-Fluorophenol</i> | <i>147</i> | | <i>µg/L</i> | <i>200</i> | | <i>74</i> | <i>5-150</i> | | | |
| <i>Surrogate: Phenol-d6</i> | <i>182</i> | | <i>µg/L</i> | <i>200</i> | | <i>91</i> | <i>5-150</i> | | | |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>31.2</i> | | <i>µg/L</i> | <i>100</i> | | <i>31</i> | <i>5-150</i> | | | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>10.1</i> | | <i>µg/L</i> | <i>100</i> | | <i>10</i> | <i>5-150</i> | | | |
| <i>Surrogate: Terphenyl-dl4</i> | <i>118</i> | | <i>µg/L</i> | <i>100</i> | | <i>118</i> | <i>5-150</i> | | | |



Metals

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|---------------------------|-------|---------------------------------------|---------------------------------------|----------------|-----|--------------|-------|
| Batch B015352 - EPA 200.7 | | | | | | | | | |
| Blank (B015352-BLK1) | | | | | | | | | |
| | | | | | Prepared: 01/06/16 Analyzed: 01/11/16 | | | | |
| Boron (B) | ND | 0.050 | mg/L | | | | | | |
| Calcium (Ca) | ND | 0.25 | mg/L | | | | | | |
| Magnesium (Mg) | ND | 0.10 | mg/L | | | | | | |
| Potassium (K) | ND | 0.10 | mg/L | | | | | | |
| Sodium (Na) | ND | 0.10 | mg/L | | | | | | |
| LCS (B015352-BS1) | | | | | | | | | |
| | | | | | Prepared: 01/06/16 Analyzed: 01/11/16 | | | | |
| Boron (B) | 0.569 | 0.050 | mg/L | 0.500 | | 114 70-130 | | | |
| Calcium (Ca) | 0.546 | 0.25 | mg/L | 0.500 | | 109 70-130 | | | |
| Magnesium (Mg) | 0.561 | 0.10 | mg/L | 0.500 | | 112 70-130 | | | |
| Potassium (K) | 2.85 | 0.10 | mg/L | 2.50 | | 114 70-130 | | | |
| Sodium (Na) | 0.516 | 0.10 | mg/L | 0.500 | | 103 70-130 | | | |
| LCS Dup (B015352-BSD1) | | | | | | | | | |
| | | | | | Prepared: 01/06/16 Analyzed: 01/11/16 | | | | |
| Boron (B) | 0.568 | 0.050 | mg/L | 0.500 | | 114 70-130 | 0.2 | 20 | |
| Calcium (Ca) | 0.509 | 0.25 | mg/L | 0.500 | | 102 70-130 | 7 | 20 | |
| Magnesium (Mg) | 0.518 | 0.10 | mg/L | 0.500 | | 104 70-130 | 8 | 20 | |
| Potassium (K) | 2.56 | 0.10 | mg/L | 2.50 | | 102 70-130 | 11 | 20 | |
| Sodium (Na) | 0.488 | 0.10 | mg/L | 0.500 | | 98 70-130 | 5 | 20 | |
| Matrix Spike (B015352-MS1) | | | | | | | | | |
| | | Source: 5123009-01 | | Prepared: 01/06/16 Analyzed: 01/11/16 | | | | | |
| Boron (B) | 0.570 | 0.050 | mg/L | 0.500 | ND | 114 70-130 | | | |
| Matrix Spike (B015352-MS2) | | | | | | | | | |
| | | Source: 6010504-01 | | Prepared: 01/06/16 Analyzed: 01/11/16 | | | | | |
| Boron (B) | 0.721 | 0.050 | mg/L | 0.500 | 0.171 | 110 70-130 | | | |



CAM Metals

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch B015352 - EPA 200.7

Blank (B015352-BLK1)

Prepared: 01/06/16 Analyzed: 01/13/16

| | | | | | | | | | |
|-----------------|----|-------|------|--|--|--|--|--|--|
| Antimony (Sb) | ND | 0.050 | mg/L | | | | | | |
| Arsenic (As) | ND | 0.020 | mg/L | | | | | | |
| Barium (Ba) | ND | 0.050 | mg/L | | | | | | |
| Beryllium (Be) | ND | 0.010 | mg/L | | | | | | |
| Cadmium (Cd) | ND | 0.010 | mg/L | | | | | | |
| Chromium (Cr) | ND | 0.010 | mg/L | | | | | | |
| Cobalt (Co) | ND | 0.050 | mg/L | | | | | | |
| Copper (Cu) | ND | 0.050 | mg/L | | | | | | |
| Lead (Pb) | ND | 0.050 | mg/L | | | | | | |
| Molybdenum (Mo) | ND | 0.020 | mg/L | | | | | | |
| Nickel (Ni) | ND | 0.050 | mg/L | | | | | | |
| Selenium (Se) | ND | 0.050 | mg/L | | | | | | |
| Silver (Ag) | ND | 0.010 | mg/L | | | | | | |
| Thallium (Tl) | ND | 0.050 | mg/L | | | | | | |
| Vanadium (V) | ND | 0.020 | mg/L | | | | | | |
| Zinc (Zn) | ND | 0.050 | mg/L | | | | | | |

LCS (B015352-BS1)

Prepared: 01/06/16 Analyzed: 01/13/16

| | | | | | | | | | |
|-----------------|-------|-------|------|-------|--|-----|--------|--|--|
| Antimony (Sb) | 0.521 | 0.050 | mg/L | 0.500 | | 104 | 70-130 | | |
| Arsenic (As) | 0.525 | 0.020 | mg/L | 0.500 | | 105 | 70-130 | | |
| Barium (Ba) | 0.550 | 0.050 | mg/L | 0.500 | | 110 | 70-130 | | |
| Beryllium (Be) | 0.525 | 0.010 | mg/L | 0.500 | | 105 | 70-130 | | |
| Cadmium (Cd) | 0.474 | 0.010 | mg/L | 0.500 | | 95 | 70-130 | | |
| Chromium (Cr) | 0.515 | 0.010 | mg/L | 0.500 | | 103 | 70-130 | | |
| Cobalt (Co) | 0.530 | 0.050 | mg/L | 0.500 | | 106 | 70-130 | | |
| Copper (Cu) | 0.528 | 0.050 | mg/L | 0.500 | | 106 | 70-130 | | |
| Lead (Pb) | 0.533 | 0.050 | mg/L | 0.500 | | 107 | 70-130 | | |
| Molybdenum (Mo) | 0.518 | 0.020 | mg/L | 0.500 | | 104 | 70-130 | | |
| Nickel (Ni) | 0.532 | 0.050 | mg/L | 0.500 | | 106 | 70-130 | | |
| Selenium (Se) | 0.536 | 0.050 | mg/L | 0.500 | | 107 | 70-130 | | |
| Silver (Ag) | 0.119 | 0.010 | mg/L | 0.125 | | 95 | 70-130 | | |
| Thallium (Tl) | 0.548 | 0.050 | mg/L | 0.500 | | 110 | 70-130 | | |
| Vanadium (V) | 0.527 | 0.020 | mg/L | 0.500 | | 105 | 70-130 | | |
| Zinc (Zn) | 0.571 | 0.050 | mg/L | 0.500 | | 114 | 70-130 | | |



CAM Metals

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch B015352 - EPA 200.7

LCS Dup (B015352-BSD1)

Prepared: 01/06/16 Analyzed: 01/13/16

| | | | | | | | | | | |
|-----------------|-------|-------|------|-------|--|-----|--------|-----|----|--|
| Antimony (Sb) | 0.500 | 0.050 | mg/L | 0.500 | | 100 | 70-130 | 4 | 20 | |
| Arsenic (As) | 0.508 | 0.020 | mg/L | 0.500 | | 102 | 70-130 | 3 | 20 | |
| Barium (Ba) | 0.508 | 0.050 | mg/L | 0.500 | | 102 | 70-130 | 8 | 20 | |
| Beryllium (Be) | 0.503 | 0.010 | mg/L | 0.500 | | 101 | 70-130 | 4 | 20 | |
| Cadmium (Cd) | 0.458 | 0.010 | mg/L | 0.500 | | 92 | 70-130 | 3 | 20 | |
| Chromium (Cr) | 0.503 | 0.010 | mg/L | 0.500 | | 101 | 70-130 | 2 | 20 | |
| Cobalt (Co) | 0.532 | 0.050 | mg/L | 0.500 | | 106 | 70-130 | 0.5 | 20 | |
| Copper (Cu) | 0.523 | 0.050 | mg/L | 0.500 | | 105 | 70-130 | 1 | 20 | |
| Lead (Pb) | 0.531 | 0.050 | mg/L | 0.500 | | 106 | 70-130 | 0.3 | 20 | |
| Molybdenum (Mo) | 0.498 | 0.020 | mg/L | 0.500 | | 100 | 70-130 | 4 | 20 | |
| Nickel (Ni) | 0.536 | 0.050 | mg/L | 0.500 | | 107 | 70-130 | 0.8 | 20 | |
| Selenium (Se) | 0.509 | 0.050 | mg/L | 0.500 | | 102 | 70-130 | 5 | 20 | |
| Silver (Ag) | 0.127 | 0.010 | mg/L | 0.125 | | 102 | 70-130 | 7 | 20 | |
| Thallium (Tl) | 0.551 | 0.050 | mg/L | 0.500 | | 110 | 70-130 | 0.5 | 20 | |
| Vanadium (V) | 0.504 | 0.020 | mg/L | 0.500 | | 101 | 70-130 | 4 | 20 | |
| Zinc (Zn) | 0.533 | 0.050 | mg/L | 0.500 | | 107 | 70-130 | 7 | 20 | |



Mercury

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|--|---------------|------|-------------|-----|-----------|-------|
| Batch B015394 - EPA 7470A Prep | | | | | | | | | | |
| Blank (B015394-BLK1) | | | | Prepared: 01/20/16 Analyzed: 01/25/16 | | | | | | |
| Mercury (Hg) | ND | 0.20 | µg/L | | | | | | | |
| Matrix Spike (B015394-MS1) | | | | Source: 6011223-01 Prepared: 01/20/16 Analyzed: 01/25/16 | | | | | | |
| Mercury (Hg) | 7.00 | 0.20 | µg/L | 7.50 | ND | 93 | 70-130 | | | |
| Matrix Spike Dup (B015394-MSD1) | | | | Source: 6011223-01 Prepared: 01/20/16 Analyzed: 01/25/16 | | | | | | |
| Mercury (Hg) | 6.50 | 0.20 | µg/L | 7.50 | ND | 87 | 70-130 | 7 | 20 | |



Alkalinity

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------|--------|-----------------|---------------|-------------|--|------|-------------|-----|-----------|-------|
| Batch B015373 - NO PREP | | | | | | | | | | |
| LCS (B015373-BS1) | | | | | Prepared: 01/12/16 Analyzed: 01/13/16 | | | | | |
| Total Alkalinity | 987 | 5.0 | mg CaCO3/L | 1000 | | 99 | 80-120 | | | |
| Duplicate (B015373-DUP1) | | | | | Source: 6011308-01 Prepared: 01/12/16 Analyzed: 01/13/16 | | | | | |
| Total Alkalinity | 164 | 5.0 | mg CaCO3/L | | 152 | | | 8 | 20 | |



Anions

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|--------------------|-------|-------------------------------|------------------|--------------|-------------------------------|-----|--------------|-------|
| Batch B015372 - NO PREP | | | | | | | | | | |
| Blank (B015372-BLK1) | | | | | | | | | | |
| | | | | Prepared & Analyzed: 01/12/16 | | | | | | |
| Chloride | ND | 0.20 | mg/L | | | | | | | |
| Nitrate as N | ND | 0.15 | mg/L | | | | | | | |
| Sulfate as SO4 | ND | 0.50 | mg/L | | | | | | | |
| Matrix Spike (B015372-MS1) | | | | | | | | | | |
| | | | | Source: 6011109-03 | | | Prepared & Analyzed: 01/12/16 | | | |
| Chloride | 8.49 | 0.20 | mg/L | 2.00 | 6.48 | 100 | 75-125 | | | |
| Nitrate as N | 1.99 | 0.15 | mg/L | 0.903 | 1.05 | 104 | 75-125 | | | |
| Sulfate as SO4 | 13.7 | 0.50 | mg/L | 4.00 | 9.71 | 100 | 75-125 | | | |
| Matrix Spike Dup (B015372-MSD1) | | | | | | | | | | |
| | | | | Source: 6011109-03 | | | Prepared & Analyzed: 01/12/16 | | | |
| Chloride | 8.51 | 0.20 | mg/L | 2.00 | 6.48 | 102 | 75-125 | 0.2 | 20 | |
| Nitrate as N | 2.01 | 0.15 | mg/L | 0.903 | 1.05 | 106 | 75-125 | 2 | 20 | |
| Sulfate as SO4 | 13.8 | 0.50 | mg/L | 4.00 | 9.71 | 103 | 75-125 | 3 | 20 | |



Total Dissolved Solids

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------|--------|-----------------|-------|-------------|--|------|-------------|-----|-----------|-------|
| Batch B015375 - NO PREP | | | | | | | | | | |
| Blank (B015375-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 01/13/16 Analyzed: 01/15/16 | | | | | |
| Total Dissolved Solids | ND | 10 | mg/L | | | | | | | |
| Duplicate (B015375-DUP1) | | | | | | | | | | |
| | | | | | Source: 6011322-01 Prepared: 01/13/16 Analyzed: 01/15/16 | | | | | |
| Total Dissolved Solids | 280 | 10 | mg/L | | 285 | | | 2 | 10 | |
| Duplicate (B015375-DUP2) | | | | | | | | | | |
| | | | | | Source: 6012703-05 Prepared: 01/27/16 Analyzed: 01/29/16 | | | | | |
| Total Dissolved Solids | 36.0 | 10 | mg/L | | 39.0 | | | 8 | 10 | |



Notes and Definitions

| | |
|-----|--|
| RDL | Reporting Detection Limit |
| ND | Analyte NOT DETECTED at or above the reporting detection limit (RDL) |
| RPD | Relative Percent Difference |
| NR | Not Reported |



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 Fax (707) 769-8093

CHAIN OF CUSTODY

Lab Project Number: 6011223
 Client Project Name: 8467 PATTERSON PASS RD
 Client Project Number: 538.0915

| CLIENT INFORMATION | |
|--------------------|--|
| Company Name: | Environmental Geology Services |
| Address: | 6169 Amie Drive Windsor, CA 95492 |
| Contact: | David Bush |
| Phone #: | (707) 528-0810 |
| Fax #: | (707) 528-0810 |
| e-mail: | dbush@egsconsultants.com |

| TURNAROUND TIME (check one) | |
|-----------------------------|--|
| Same Day _____ | 24 Hours _____ |
| 48 Hours _____ | Normal <input checked="" type="checkbox"/> |
| 5 Days _____ | |

| |
|--|
| Geotracker EDF: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Global ID: <u>T10000007269</u> |

Cooler Temperature
10.00 °C

Page 1 of 1

| ANALYSIS | | | | | | | | | | | | | | | | Comments | Lab Sample # | | | | |
|----------|------------------|--------------|------|--------|---------|------------|-----------------------------------|----------------------------------|---|---|-------------------------------------|---|--------------------------------------|---------------------------------|---|----------|--------------|---------------------------------|---------|---------------------------|-------------------|
| Item | Client Sample ID | Date Sampled | Time | Matrix | # Cont. | Presv. Y/N | TPH/Gas/BTEX & MTBE EPA 8015/8021 | TPH Diesel / Motor Oil EPA 8015M | Volatile Hydrocarbons EPA 8260B (Full List) | BTEX & Oxygenates + PB Scavengers EPA 8260B | Oxygenated Fuel Additives EPA 8260B | Chlorinated Solvents EPA 8010 / EPA 8260B | Semi-Volatile Hydrocarbons EPA 8270C | TRPH / TOG SM 5520F / EPA 418.1 | Pesticides / PCB's EPA 8081 / 8141 / 8082 | | | Cam 17 Metals / 5-Leads/ Metals | EC, TDS | Cl, B, Ca, Mg, K, Na, SO4 | ALK, NITRATE AS N |
| 1 | MW-1 | 1/12/16 | 1230 | H2O | 6 | Y/N | X | X | X | | | | X | | | X | X | X | X | 6011223 | -01 |
| 2 | MW-2 | ↓ | 1154 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | ↓ | | | ↓ | ↓ | ↓ | ↓ | ↓ | -02 |
| 3 | MW-3 | ↓ | 1110 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | ↓ | | | ↓ | ↓ | ↓ | ↓ | ↓ | -03 |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |

| SIGNATURES | | | |
|------------------|--------------------------------------|-----------------|--------------------------------------|
| Relinquished By: | Sampled By: <u>DAVID BUSH</u> | Received By: | |
| Signature _____ | Date <u>1/12/16</u> Time <u>1570</u> | Signature _____ | Date <u>1-12-16</u> Time <u>1510</u> |